

EXPRESSION OF INTEREST

FOR

SELECTION OF BACKEND TECHNICAL PARTNER / SYSTEM INTEGRATOR

FOR

SUPPLY, INSTALLATION, TESTING & COMMISSIONING (SITC) OF INTEGRATED COMMAND & CONTROL CENTRE (ICCC) FOR CCTV SURVEILLANCE SYSTEM WITH VMS AND ARTIFICIAL INTELLIGENCE (AI) BASED VIDEO ANALYTICS (VA) AT NLCIL HQ, ALONG WITH FIVE UNIT MONITORING STATION AND CCTV SURVEILLANCE SYSTEM AT NLCIL MINES

AS PER SITE REQUIREMENTS FOR CENTRALIZED MONITORING OF LIVE FOOTAGE OF IP-CAMERAS WITH THREE YEARS WARRANTY AND THREE YEARS OF CAMC FROM THE NEXT DAY OF COMPLETION OF WARRANTY ALONG WITH NECESSARY LICENSES AND PERMISSIONS

EOI No. BECIL/PROJ/BT/CCTV/NLCIL/25-26/EOI

Dated: 07/01/2026

Issued By

Mr. Binay Kumar Tiwari (DGM)



Broadcast Engineering Consultants India Limited

(A Government of India Enterprise)

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DISCLAIMER

The information contained in this Request for Proposal document (the “EOI”) or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of BECIL or any of its employees or advisors, is provided to Bidder(s) on the terms and conditions set out in this EOI and such other terms and conditions subject to which such information is provided. This EOI is not an agreement and is neither an offer nor invitation by BECIL to the prospective Bidders or any other person. The purpose of this EOI is to provide interested parties with information that may be useful to them in making their offers (Bids) pursuant to this EOI. This EOI includes statements, which reflect various assumptions and assessments arrived at by BECIL in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This EOI may not be appropriate for all persons, and it is not possible for BECIL, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this EOI. Each Bidder should, therefore, conduct its own investigations, actual site/ facilities/location inspections and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this EOI and obtain independent advice from appropriate sources. Information provided in this EOI to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. BECIL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein. BECIL, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this EOI or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the EOI and any assessment, assumption, statement or information contained therein or deemed to form part of this EOI or arising in any way for participation in this Bid Stage. BECIL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this EOI. BECIL may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this EOI. The issue of this EOI does not imply that BECIL is bound to select a Bidder or to appoint the Selected Bidder for the Project and BECIL reserves the right to reject all or any of the Bidders or Bids without assigning any reason whatsoever. The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by BECIL or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and BECIL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process. In case of any rejection/cancellation, no bidder has any right to claim any compensation or reimbursement to cost. Participation in EOI does not guarantee selection of bidder.

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SECTION –I

INTRODUCTION AND BRIEF DESCRIPTION

1. INTRODUCTION

Broadcast Engineering Consultants India Limited (BECIL), an ISO 9001:2015, 27001:2013, ISO/IEC 2000:2012 certified Mini Ratna Central Public Sector Enterprise (CPSI) was incorporated on 24th March, 1995 under the Companies Act, 2013 (erstwhile the Companies Act, 1956) by Government of India with 100% equity share capital of BECIL held by President of India through Secretary and Joint Secretary of Ministry of Information & Broadcasting.

The Company was initially set up for providing project consultancy services and turnkey solutions encompassing the entire gamut of radio and television broadcast engineering, establishment of transmission facilities, content production facilities, terrestrial, satellite and cable broadcasting in India and abroad. The company has now diversified into the fields of Strategic Projects such as Information Communication.

Technology, Electronic Surveillance (namely CCTV, Access Control, Intrusion, Fire Safety, Hydrants, etc.). Electronic Media contents including films, Sentinel Analytics, Counter Drones/UAV etc. The activities include, but are not limited to Supply, Installation, Testing & Commissioning, Consultancy Services, Technical Audit, Media Analysis, R&D, projects pertaining to Digital India, City Surveillance, Safe City, Smart City, Make in India, Manufacturing, Audio Video & Data Analysis, Cyber Security, Engineering, Procurement & Construction, Project Management Services, Operation and Maintenance, Manpower Placement, AMC and providing total turnkey project for critical information infrastructure.

BECIL, has its Head Office in New Delhi, Corporate Office in Noida and Regional Office in Bangalore and Kolkata. BECIL is exploring geographical expansion in many states due to diversification in business portfolios.

Over the years, BECIL has consciously groomed and developed a team of in-house, versatile and dedicated engineers and also cultivated and harnessed a vast reservoir of professionals drawn from various fields of Broadcasting Industry, which include public and private Broadcasters, Defense and Cable Industry. Through this network of resourceful technical professionals, BECIL, has established its pan India presence to serve the needs of the industry.

BECIL has a vast reservoir of experts and integrates the expertise of All India Radio (AIR) and Doordarshan (DD), the national broadcaster of India, catering to one of the largest Radio Networks reaching out to more than a billion people and the world's largest Terrestrial Television Network supplemented by Analogue and Digital satellite Broadcasting services reaching out to millions of TV homes in India and abroad.

2. INTRODUCTION OF PROJECT/TENDER

NLC India Ltd. has floated a tender vide No. GEM/2025/B/6999774 dated 15/12/2025 for **Supply, Installation, testing & commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with VMS and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL HQ, along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP-Cameras with three years warranty and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions.**

3.1 ELIGIBLE BIDDERS

That the Prospective Bidder or its Allied firm or sister concern should not be blacklisted/debarred or put on holiday, by BECIL or any other Public sector Enterprise or a Government Body, as on the date of submission of the bid.

That the Bid submitted by any of the Bidder, who is found to be blacklisted/ debarred or on a Holiday list shall be out rightly rejected.

That in the event, if the Bidder chooses to be discreet and conceal about its status or about the status of any of its Allied/Sister concern of being debarred, then it shall be construed as a misrepresentation of facts and shall lead to an appropriate action by BECIL.

That the Bidder should not be undergoing any liquidation/insolvency proceedings on the due date of the submission of the bid. In case of any change in the status of declaration by the Bidder, the same shall be notified by BECIL to the Bidder in a span of seven days from the date of initiation of proceeding.

3.2 COST OF BIDDING

The Bidder shall be responsible to bear any costs associated with the preparation and submission of the Bid, and BECIL in no case, shall be responsible or liable for costs, inclusive of but not limited to bank charges, courier charges, site visits, expenses incurred for the purpose of demonstration and representation as desired by BECIL in order to assess the efficiency of the prospective Bidder, or any other expenses incurred for the submission of the Bid. That the Bidder shall be responsible for the costs/expenses regardless of the outcome of the bidding process.

3.3 ASSURANCE

The successful Bidder shall have to provide requisite documentation and satisfactory assurance of its capability and intention in regard to the supply of the goods and/or performance of the requisite scope of work/services pursuant to the award of the Contract within the time set forth herein

3.4 SITE VISIT

It shall be the responsibility of the Bidder to visit the Premises/Site wherein the work is to be performed or services is to be delivered to obtain all the requisite information that is necessary/essential for preparing the Bids and entering into a Contract. The cost of visiting the Site shall be borne by the Bidder. **(The bidder shall submit an undertaking for the same along with the bid)**

The grant of permission by BECIL to the Bidder or its Authorized Representative , for the purpose of Site visit shall be contingent on the express condition that the Bidder and its representatives/agents shall indemnify the Company i.e. BECIL and its personnel from and against all liability in respect thereof and will be responsible for personal injury (whether fatal or otherwise), loss of or damage to property and any other loss, damage, costs and expenses however caused, which, but for the exercise of such permission would not have arisen. That in the event if the Bidder fails to visit the site, it shall not relieve it from the performance of its scope of work/obligations as per the Contract

3.5 CONTENTS OF THE BIDDING DOCUMENT

That the set of Bidding Documents, include the Annexures given herein below in addition to the Invitation for Bid, together with any amendment/addendum

- i. Annexure -I Introduction and Brief Description
- ii. Annexure II- Schedule Of Dates
- iii. Annexure III- General Terms and Conditions
- iv. Annexure IV- Scope of Work and Specification
- v. Annexure V- Bid Evaluation and Matrix
- vi. Annexure VI- Enclosures and Forms

3.6 CLARIFICATION OF BIDDING DOCUMENT

For any clarification related to using the portal, you may visit the below link:

<https://becil.ewizard.in>

(i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

(ii) Any queries relating to the process of online bid submission or queries relating to e- tender Portal in general may be directed to the Helpdesk Support.

(iii) Please feel free to contact ewizard helpdesk (as given below) for any query related to

E-tendering Phone No. 011-49606060

Mail id: - helpdesk@ewizard.com -

3.7 ADDENDUM/AMENDMENT TO THE BIDDING DOCUMENT

At any time prior to the deadline for the submission of the Bids by the Bidders, BECIL shall have the discretion to amend the bid at its own initiative or in sub-sequence to a clarification sought by the prospective Bidder.

The Amendment / Addendum shall form a part of the Bidding Document pursuant to clause 10 and clause 43 of the General terms and Conditions and the same shall be notified on the said procurement portal, so that the said addendum/amendment becomes binding on all the prospective bidders.

In the event of an Addendum/Amendment to the Bidding Document, the prospective Bidders shall be provided with a reasonable time for the purpose of preparation of their bids.

3.8 LANGUAGE OF THE BID

That the Bid and all correspondences and communication in connection with this Bid shall be in English language. The supporting documents to be submitted by the Bidder may be in another language provided they are accompanied by a certified translation. However, BECIL may also translate the documents on its own to avert the possibility of any irregularity and ambiguity.

3.9 EARNEST MONEY DEPOSIT

EMD/ Bid Security: The Bid Security amounting to **Rs. 81,93,000/- (Rupees Eighty One Lakh Ninety Three Thousand Only)** will be submitted with bid by all the bidders in the form of BG/ online transfer. Exemption to MSEs is applicable to this tender. However in case if selected bidder happens to be MSE than EMD amount is to be remitted as Initial Security Deposit (ISD) before the issue of Letter of Award (LOA) within the stipulated days from the date of intimation. The EMD submitted is refundable and no interest will be paid. The EMD will be refunded, in case work is awarded to BECIL on the submission of Performance Bank Guarantee and in case of unsuccessful bid, immediately after the fact came to BECIL knowledge.

That the Earnest money deposit has been sought with an intent to protect the interests of M/s BECIL against the conduct of the Bidder which shall warrant the forfeiture of the earnest money deposit.

That any Bid not secured in accordance with Earnest Money Deposit will be rejected by BECIL by virtue of being un-responsive.

That the Earnest money deposit of all the Unsuccessful Bidders shall be discharged/returned not later than 45 days after the finalization of the tendering process, whereas the Earnest money deposit of the unsuccessful Bidder shall be discharge upon signing the Work Order/Agreement or upon acknowledging the award and on furnishing of the Performance bank guarantee/ Security deposit.

Notwithstanding any contained in the Contract, the Earnest money deposit shall be forfeited in the following circumstances:-

- i. In the event of withdrawal of bid, by the Bidder during the bid validity period
- ii. If the Bidder is found indulgent in fraudulent/collusive and coercive practice
- iii. In the event if the Bidder modifies the bid after the due date and time for the submission of the Bids
- iv. In the case of successful Bidder, if the Bidder fails to sign the work order/Agreement
- v. In case if the Bidder fails to furnish the Performance bank guarantee/ security.

3.10 INTENT AND IMPORTANT ASPECTS OF THE EXPRESSION OF INTEREST (EOI)

The Intent and important aspects of this Expression of Interest is (EOI) are as follows: -

BECIL intends to onboard a **Back-end Partner/System Integrator**. The selected partner will support BECIL in the execution of Tender No. GEM/2025/B/6999774 dated 15/12/2025 titled **“Supply, Installation, testing & commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with VMS and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL HQ, along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP-Cameras with three years warranty and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions”**.

The intent of this EOI is to select a Back-end Technology Partner of BECIL, subsequently work

with BECIL for the above-mentioned tender if work gets awarded to BECIL. An MOU/ Agreement will be signed by BECIL with the Back-end Technology partner selected through this EOI, for preparation of bid and/ or participation in the above-mentioned tender.

In case the bid submitted by BECIL against the said tender, is accepted and BECIL receives Work Order/ Agreement from/ with the Client. BECIL may issue a Work Order to the selected agency. In such a scenario, the following conditions will be applicable, which are to be fully taken into consideration by the bidders, prior submitting a response to this EOI:-

The Back end Technology partner selected through this EOI, may be issued a work order by BECIL, for undertaking the work as per the above mentioned client's tender.

All terms and conditions of the client's tender, and any subsequent amendments/ corrigenda thereof, will be applicable fully on back to back basis on the Back end technology partner selected through this EOI, including all important terms and conditions like EMD, PBG, Payment Terms, SLA conditions, Liquidity Damages, and any other penalties etc.

3.11 Performance Bank Guarantee (PBG)

In case the said tender is awarded to BECIL, the PBG as applicable shall be payable by the selected bidder on back to back basis as per the terms and conditions of Client's Tender. The bidder must submit an undertaking in the bid stating that "they will provide the PBG in accordance with the timeline and the terms and conditions outlined in the client's tender.

All payments in the Project to the selected agency shall be on back-to-back basis only subject to receipt of corresponding payment from the client. An advance payment may be made to the selected agency, only if BECIL, receives an advance from the customer, **provided the selected agency submits a bank guarantee (BG) of 110% of amount to BECIL in addition to the PBG.**

The decision to engage the successful bidder as Back End Technology Partner shall be taken by the Competent Authority of BECIL and accordingly the respective agreement shall be signed.

Bidders are advised to go through the Scope of Work and terms & condition of the said tender to understand the requirement and challenges associated with locations prior to submitting their bids.

The selected agency shall not subcontract, assign, or transfer any part of its obligations, duties, or responsibilities to any third party without the prior written consent of BECIL. Any attempt to do so shall be considered a material breach, leading to immediate termination without any liability on the part of BECIL.

SECTION-II

IMPORTANT DATES (SCHEDULE AND CRITICAL DATES)

4.1 IMPORTANT DATES (SCHEDULE AND CRITICAL DATES)

S.N	ACTIVITY	SCHEDULED DATE & TIME
1.	EOI Number	<u>BECIL/PROJ/BT/CCTV/NLCIL/25-26/EOI</u>
2.	Date of Issue of EOI	07. 01. 2026
3.	Last date and Time for Submission of bids	12 th January, 2026 at 11.30 Hrs
4	Bid Opening Date	12 th January, 2026 at 12.00 Hrs
5	Availability of Document	https://www.becil.com; https://becil.ewizard.in
6	E-tender Portal Fee (Non-refundable)	INR 3,540/- E-tender Portal Fee (non-transferrable & non-refundable) payable through online e-Portal
7.	Bidder Enrolment Fee (Non-refundable)	INR 2360/- Bidder Enrolment Registration fee (non-transferrable & non-refundable) payable through online e-Portal
8.	RFP document Fee (Form Fee) (Non-Refundable)	INR 17,700/- (incl GST) Form Fees (non-transferrable & non-refundable) payable through online e-Portal
9.	EMD/ Bid Security	INR 81,93,000/- to be submitted with the bid. For detail refer clause 3.9
10.	Address for Communication of bids	BECIL Bhawan, C-56 / A -17, Sector - 62, Noida – 201307.
11.	Contact details for this EOI	Sh. Binay Kumar Tiwari, DGM Tele- 0120-4177850 Email- binaytiwari@becil.com

4.2. INSTRUCTIONS FOR E-TENDERING PORTAL OF BECIL

4.2.1 E-TENDER PORTAL FEE

The bidder has to pay a non-refundable e-tender portal fee amounting to ₹ 3540/- (Non-refundable) by way of on-line payment on e-tender portal before submission of the proposal.

4.2.2 SUBMISSION OF THE PROPOSAL

The bidders are advised to study the RFP document carefully. Submission of proposals shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications. Bidders shall have to submit their proposal (Technical and Financial) online through the e-tendering website <https://becil.ewizard.in>

4.2.3 E-TENDERING PROCEDURE

- (i) E-Procurement is the complete process of e-tendering from publishing of tenders online, inviting online bids, evaluation and award of contract using the system. You may keep a watch of the tenders floated under <https://becil.ewizard.in>. These will be invited for online Bids. Bidder Enrolment can be done using "Bidder Enrolment".

(ii) The instructions given below are meant to assist the bidders in registering on the e-tender Portal, and submitting their bid online on <https://becil.ewizard.in> the e-tendering portal as per uploaded bid.

(iii) More information useful for submitting online bids on may be obtained at: <https://becil.ewizard.in>

4.2.4 GUIDELINES FOR REGISTRATION ON PORTAL

(i) Bidders are required to enroll on the e-Procurement Portal by clicking on the link “Online Bidder Enrolment” on the e-tender Portal by paying the **Registration fee of Rs. 2360/- (inclusive of taxes)**.

(ii) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

(iii) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidders.

(iv) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile. Or bidders can contact our help desk for getting the DSC.

(v) Only valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.

(vi) Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC /e-Token.

(vii) The scanned copies of all original documents should be uploaded in pdf format on portal <https://becil.ewizard.in>

(viii) After completion of registration payment, bidders need to send their acknowledgement copy on our **help desk mail ID: helpdesk@ewizard.com** for activation of your account.

Helpdesk Number : Tel 011-49606060 , 9355030616, 9560364871

4.2.5 SEARCHING FOR TENDER DOCUMENTS ON PORTAL

(i) There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.

(ii) Once the bidders have selected the tenders they are interested in, you can pay the form fee and processing fee (NOT REFUNDABLE) by net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fee tenders will be moved to the respective ‘requested’ Tab. This would enable the e-tender Portal to intimate the bidders through e-mail in case there is any corrigendum issued to the tender document.

4.2.6 PREPARATION OF BIDS ON PORTAL

- (i) Bidders should take into account any corrigendum published on the tender document before submitting their bids.
- (ii) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- (iii) Bidders, in advance, should get ready the bid documents to be submitted as indicated in the tender document /schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Color option which helps in reducing size of the scanned document.
- (iv) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GST, Annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Documents” available to them to upload such documents.
- (v) These documents may be directly submitted from the “My Documents” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

4.2.7 SUBMISSION OF BIDS ON PORTAL

- (i) Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- (ii) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by BECIL.
- (iii) Bidder has to select the payment option as “e-payment” to pay the tender fee / EMD as applicable and enter details of the instrument.
- (iv) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- (v) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- (vi) The uploaded tender documents become readable only after the tender opening by the authorized bid openers. Upon the successful and timely submission of bid click “Complete”

(i.e. after Clicking “Submit” in the portal), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

4.2.8 CLARIFICATION

For any clarification related to using the portal, you may visit the below link:

<https://becil.ewizard.in>

(i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

(ii) Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the Helpdesk Support.

(iii) Please feel free to contact ewizard helpdesk (as given below) for any query related to

E-tendering Phone No. 011-49606060

Mail id: - helpdesk@ewizard.com

SECTION –III

EOI NOTICE & GENERAL TERMS AND CONDITION

5 **EOI NOTICE**

5.1 Broadcast Engineering Consultants India Limited (BECIL) invites Expression of Interest (EOI), through online mode, for selection of a Back end Technology partner of BECIL, for collaborating with BECIL for participating in Tender No. GEM/2025/B/6999774 dated 15/12/2025 Titled “**Supply, Installation, testing & commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with VMS and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL HQ, along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP-Cameras with three years warranty and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions**”

5.2 The EOI must be submitted in English Only. All the documents including the supporting documents/ enclosures etc. must be Calibri/ Aerial/ Times New Roman, font size-12 and fully legible. Supporting documents if in a language other than English must be accompanied by an English translated document. The English version shall prevail in matters of interpretation. EOI Documents which are not legible shall be rejected.

5.3 The representative of agency will require a specific authorization/ board resolution to submit the EOI.

5.4 In case the bidder has any doubt about the meaning of anything contained in the EOI document/pre-bid queries, they shall seek clarification within 2 days of issue of EOI. Except for any written clarification by Shri Binay Tiwari, DGM, BECIL, no written or oral communication, presentation or explanation by any other employee of BECIL shall be taken to bind or fetter BECIL under the contract. In case of such clarification or otherwise, the extension in the bid submission date of the EOI shall be entirely on the discretion of BECIL taking into the consideration of end client's tender submission due date.

5.5 The Management of BECIL reserves the right to amend or withdraw any of the terms and conditions mentioned in the EOI Document or reject any or all the bids without giving any notice or assigning any reason. The decision of the CMD, BECIL in this regard shall be final and binding on all.

5.6 BECIL reserve the right to amend any term of the EOI at any point of time before the submission and bidder should regularly check the website. Further, BECIL also reserves to increase/ decrease/ delete/ add any BOQ item. Further any amendment done by client after the selection of bidder, all the amendment will be applicable. In case of non-acceptance of such amendment, the EMD submitted will be forfeited by BECIL and blacklisting of agency may be done for a minimum period of 3 years from participating in BECIL EOI/tenders

5.7 The bidder should submit the signed Integrity Pact on a plain paper along with the bid.

5.8 The Bidders will have no right to withdraw from the EOI process post submission of their bid without the formal consent of BECIL.

5.9 Participation in the EOI by any bidder will be on “NO COST NO COMMITMENT” basis. The Bidder shall bear all cost associated with the preparation and submission of the Bid including but not limited to Documentation Charges, Bank charges, all courier charges, translation charges, authentication charges and any associated charges including taxes & duties

thereon. Further, BECIL will in no case be responsible or liable for these costs, regardless of the outcome of the bidding process.

5.10 For Consortium : Not Applicable

6 SUBMISSION OF EOI

6.1 EOI, complete in all respects, must be submitted online on the <https://becil.ewizard.in>.

6.2 BECIL may, at its own discretion, extend the date for submission of EOI. In such a case all rights and obligations of BECIL and the bidders shall be applicable to the extended time frame.

6.3 As the EOI can be submitted only up to the defined date and time, there can't be any late bids.

6.4 At any time prior to the last date for receipt of EOI, BECIL may for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the EOI document by an amendment. The amendment will be notified on BECIL's website <http://www.becil.com> & <https://becil.ewizard.in> and should be taken into consideration by the prospective bidders while preparing their EOI.

6.5 The bidders will bear all costs associated with the preparation and submission of their bids. BECIL will, in no case, be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

6.6 The bidder shall ensure that it fulfills the eligibility criteria as desired in the EOI and other essential conditions. Compliance statement of Eligibility criteria with the documents submitted as a proof is to be prepared and submitted. The supporting documents may be with list of existing and past clients with details of services offered, details of similar projects executed.

6.7 The EOI should be duly signed on each page by authorized person. Documents authorizing the signatory /Power of Attorney must accompany the bid.

6.8 The EOI complete in all respects must be submitted with requisite information and annexure(s). The EOI should be free from ambiguity, change or interlineations. In complete EOI will not be considered and is liable to be rejected without making any further reference to agency/ bidder

6.9 Bidders have to take into account any changes/ amendments made in the end client's tender/ RFP through corrigendum till date of submission of bid in response of EOI.

6.10	Checklist of documents/information to be submitted	
	(a)	Bidder Particulars as per format.
	(b)	Certificate of Incorporation (for Company/LLP/Proprietorship)
	(c)	Memorandum & Articles of Association/Partnership deed/Proprietorship declaration
	(d)	Audited financial statements for the last 3 years i.e. FY 2022-23; 23-24; 24-25.
	(e)	ITR Acknowledgment for last 3 years i.e. FY 2022-23; 23-24; 24-25
	(f)	Undertaking to provide the PBG in accordance with the timeline and the terms and conditions outlined in the client's tender
	(g)	GST Registration Certificate

	(h)	Copy of PAN Card
	(i)	Any other relevant registration documents on registration with other appropriate authorities (ESIC, EPFO, Labour deptt etc.)
	(j)	Power of Attorney authorizing the person signing the bid for this EOI.
	(k)	Undertaking in letter head to indemnify BECIL from any claims / penalties / statutory charges, liquidated damages, with legal expenses etc.
	(l)	Undertaking in compliance to Office Memorandum No. F. No. 6/18/2019-PPD, Dated 23-07-2020, Department of Expenditure, Ministry of Finance as per Clause 10 below.
	(m)	All the requisite documents in the prescribed formats placed at Annexures to this EoI
	(n)	Pre-Contract Integrity Pact as per Annexure-A
	(o)	All the documents in support of Technical criteria like Experience Certificates, PO, proposed Makes for the solution, Solution architecture (if asked) and other documents as required.
	(p)	Declaration regarding acceptance of Terms and conditions of EOI.
	(q)	Undertaking for compliance with signing of Non-disclosure agreement as per clause 39 below.
	(r)	Undertaking for payment of EMD/ Bid Security if selected or claiming EMD exemption under MSME enclosing the relevant documents such as registration certificate with MSME in similar field/ work.
	(s)	Undertaking regarding absence of Conflict of Interest as per clause 14 below
	(t)	Undertaking regarding site visit as per site visit clause 3.4
	(u)	Consortium agreement in case where bidder is consortium

7 OPENING OF EOI

7.1 The bids submitted against this EOI shall be opened on **12th January 2026** **12.00 hrs.** BECIL reserves the right to change the date of opening of bid.

7.2 Bidders who wish to attend opening of EOI may visit BECIL for the same at the designated time, with authorization in proper format on bidder's letter head.

8. RELATIONSHIP BETWEEN THE PARTIES

Nothing contained herein, shall be construed as establishing a relation of master and servant or of Agent and Principal as between the Bidder/Agency and BECIL.

9. INTELLECTUAL PROPERTY RIGHTS:

9.1 Deliverable, outputs, plans, drawings, specifications, designs, reports and other documents and software submitted by the Bidders under this EOI and subsequent to this EOI in relation with this tender shall become and remain the property of BECIL/procuring entity and

subject to laws of copyright, must not be shared with third parties or reproduced, whether in whole or part, without BECIL's/ the procuring entity's prior written consent.

- 9.2 The Bidder shall, not later than upon termination or expiration of this Contract and/or subsequent Agreement/Contract signed with the Bidder, deliver all such documents and software to BECIL/the procuring entity, together with a detailed inventory thereof.
- 9.3 The Bidder shall not incorporate any materials, technology or any item or thing that involves the use of intellectual property rights or proprietary rights that the Bidder does not have the right to use or that may result in claims or suits against BECIL arising out of claims of infringement of any intellectual property rights or other proprietary rights.
- 9.4 The Bidder shall perform all acts necessary to obtain and continue to have all necessary licenses, approvals, consents of third parties free from any encumbrances and all necessary technology, hardware and software to enable it to perform its obligations under this Contract. If license agreements are necessary or appropriate between the Bidder and third parties for purposes of enabling, enforcing or implementing the provisions hereinabove, the Bidder shall be under an obligation to enter into such agreements at its own sole cost, expense and risk.

10 LAND AND BORDER PROVISION

- 10.1 The Undertaking at Annexure-K shall be submitted by the Bidder in line with the guidelines issued vide the Office Memorandum, No. F. No. 6/18/2019 dated 23.07.2020, by the Department of Expenditure, Ministry of Finance, Govt. of India.

11 INDEMNITY

- 11.1 The Bidder shall indemnify, save, hold harmless and defend BECIL and its officers, servants, employees and agents promptly upon demand and at its expense, from and against any and all suits, proceedings, actions, demands, losses, claims, damages, liabilities, costs (including reasonable attorney's fees and disbursements) and expenses (collectively, "Losses") to which BECIL may become subject, insofar as such losses arise out of, in any way relate to, arise or result from:
- a) Deficiency in the Bidder's performance of its scope of service or breach of any of its obligations or scope of work.
 - b) Actions by the Bidder that causes BECIL to be indirect or direct consequential, breach of the main contract.
 - c) Any claims by employees, suppliers, creditors or other persons in a relationship with the Bidder.
 - d) Any claims of infringement, misappropriation or otherwise by third parties in regard to the execution of the works.

12 CODE OF INTEGRITY

- 12.1 No official of BECIL or the Bidder shall act in contravention of the codes which includes Prohibition of:

- a) Offering of any bribe or undue gratification in any form to BECIL/Client or its officials, or indulging in any corrupt practices.
- b) Any omission, or misrepresentation that may mislead or attempt to mislead so that a financial or other benefit may be obtained, or any necessary obligation or pre-requisite may be avoided.
- c) Improper use of information provided by BECIL to the Bidder with an intent to gain an unfair advantage in the procurement process or for personal gain.
- d) Any financial or business transactions between the Bidder and any official of BECIL/Client related to tender or execution process of contract, which can affect the decision of BECIL directly or indirectly.
- e) Any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.
- f) Obstruction of any investigation or auditing of a procurement process.
- g) Making false declaration or providing false information for participation in a tender Process or to secure a contract.

13 CONFLICT OF INTEREST

Any Bidder having a conflict of interest, which substantially affects fair competition, shall not be eligible to bid in this tender. Bids found to have a conflict of interest shall be rejected as non-responsive. Bidder shall be required to declare the absence of such conflict of interest in Form of Declaration. A bidder in this Tender Process shall be considered to have a conflict of interest if the bidder: Directly or indirectly controls, is controlled by or is under common control with another Bidder; or

- a) Receives or have received any direct or indirect subsidy/ financial stake from another Bidder; or
- b) Has the same legal representative/ agent as another Bidder for purposes of this bid. A Principal can authorize only one agent, and an agent also should not represent or quote on behalf of more than one Principal. However, this shall not debar more than one Authorized distributor from quoting equipment manufactured by an Original Equipment Manufacturer (OEM), in procurements under Proprietary Article Certificate; or
- c) Has a relationship with another bidder, directly or through common third parties, that puts it in a position to have access to information about or influence the bid of another Bidder or influence the decisions of the Procuring Entity regarding this Tender process; or
- d) Participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as sub-contractor in another bid or vice- versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of a non-bidder firm as a sub- contractor in more than one bid; or
- e) Would be providing goods, works, or non-consulting services resulting from or directly related to consulting services that it provided (or were provided by any affiliate that directly or

indirectly controls, is controlled by, or is under common control with that firm), for the procurement planning (inter-alia preparation of feasibility/ cost estimates/ Details Project Report (DPR), design/ technical specifications, terms of reference (ToR)/ Activity Schedule/ schedule of requirements or the Tender Document etc.)of this Tender process; or has a close business or family relationship with a staff of the Procuring Organization who:

- (i) are directly or indirectly involved in the preparation of the Tender document or specifications of the Tender Process, and/or the evaluation of bids; or
- (ii) would be involved in the implementation or supervision of resulting Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the Tender process and execution of the Contract.

14 UNDUE INFLUENCE

- a. The Agency/Bidder undertakes that it has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the BECIL/Client or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract or any other Contract with the Government of India for showing or forbearing to show favor or disfavor to any person in relation to the present Contract or any other Contract with the Government of India.
- b. Any breach of the aforesaid undertaking by the Agency/Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Agency) or the commission of any offers by the Agency or anyone employed by him or acting on his behalf, as defined in the Bharatiya Nyaya Sanhita, erstwhile known as the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle BECIL to cancel the contract and all or any other contracts with the Agency and recover from the Agency the amount of any loss arising from such cancellation, from the present or from any other contract with BECIL.

15 UNLAWFUL/UNETHICAL PRACTICES

- 15.1 If the Contractor/ Bidder has engaged in corrupt, fraudulent, collusive and coercive practices or defaulted commitments under integrity.
- 15.2 Any intentional omission or misrepresentation in the documents submitted by the Bidder for the purpose of due diligence or for the execution of any act essential for the execution of the Project.
- 15.3 If the Bidder uses intimidation / threats or bring undue outside pressure on BECIL or any of its official for acceptance / performances of the deliverable/qualified work under the contract:

16 PENALTY FOR BREACH OF INTEGRITY, CONFLICT OF INTEREST, UNLAWFUL/UNETHICAL PRACTICES AND UNDUE INFLUENCE

- 16.1 Forfeiture of Bank guarantee or any other bond or bid security submitted by the Bidder.

- 16.2 Cancellation/ termination of the Contract with the liberty to recover the accrued losses/damages by the Bidder from the dues payable to the bidder in the present or any contract with BECIL, including imposition of penal damages.
- 16.3 Initiation of Arbitration /legal proceedings to recover losses or damages incurred by BECIL due to the violation of ethical practice or use of unlawful practices or use of undue influence by the Agency.

17 BLACKLISTING/ DEBARMENT

- 17.1 The Bidder/Contractor shall be debarred/blacklisted from bidding for the contract/tender floated by BECIL for a period of two years, for violation of the code of integrity, for undue influence as well as for the breach of any other terms and conditions of the tender as per the General Financial Rules 2017 and the Guidelines for debarment of firms from bidding issued by the Department of Expenditure, Ministry of Finance no. F1/20/2018 –PPD dated 02.11.2021.

18 RISK AND COST CLAUSE

- 18.1 In case of persistent breach/default of the terms and conditions of the Contract and due to abnormal delay (beyond the maximum late delivery in the Liquidated damages clause) in supplies, defective supplies or non-fulfilment of any of the terms and conditions of the RFP and the Work Order, BECIL may cancel the contract/Work Order in full or part thereof, and will procure supplies/equipment's or ensure the execution of work or any pending service in case of service contract from other willing vendor at the risk and cost of the Bidder.
- 18.2 Risk & Cost Clause, in line with Conditions of Contract may be invoked in any of the following cases:
- 18.3 Bidder's poor progress of the work vis-à-vis execution timeline as stipulated in the Contract, backlog attributable to Bidder including unexecuted portion of work/ supply does not appear to be executable within balance available period.
- 18.4 Withdrawal from or abandonment of the work by Bidder before completion of the work as per contract.
- 18.5 Non completion of work/ Non-supply by the Bidder within scheduled completion/delivery period as per RFP or as extended from time to time, for the reason attributable to the Agency/ Bidder.
- 18.6 Termination of Contract on account of any other reason (s) attributable to Agency/ Bidder
- 18.7 Assignment, transfer, subletting of Contract by the Agency/Bidder without BECIL's written permission resulting in termination of Contract or part thereof by BECIL

19 PENALTIES

- 19.1 In the event of any penalties, deductions, disincentives, or charges levied by the Client due to poor or substandard quality of work, non-compliance with service standards, or any deficiencies related to the assigned scope of work, the same shall be recovered from the Bidder.
- 19.2 The Bidder shall bear the full financial responsibility for such penalties or deductions imposed on BECIL by the Client and will not be entitled to claim any reimbursement or adjustment for the same.

20 CONFIDENTIALITY

- a. The Bidder recognizes, accepts and agrees that disclosure of Confidential information to the Staff shall be only on a need-to-know basis and only those staff who are involved in rendering the services and need to have access would alone be informed of Confidential information.
- b. The Bidder recognizes, accepts and agrees that all tangible and intangible information obtained or disclosed to the Bidder's and/or its staff, including all details, documents, data, business/ customer information and the BECIL 's practices and trade secrets (all of which are hereinafter collectively referred to as "confidential information") which may be communicated to the Bidder 's and/or its facility staff may be privy under or pursuant to this Contract and/or in the course of performance of the Bidder 's obligations under this Contract shall be treated, as absolutely confidential and the Bidder irrevocably agrees and undertakes and ensures that all its facility staff shall keep the same as secret and confidential and shall not disclose the same at all in whole or part to any Person or persons (including legal entities) an any time or use nor shall allow information to be used for any purpose other than that as may be necessary for the due performance of the Bidder's obligations hereunder except when required to disclose under the due process and authority of law.

21 RIGHT TO INSPECTION

- a. That BECIL and its field officers or its Auditors, shall have the right to carry out inspection checks and tests, and do audit of the Bidder's premises, personnel and records relating to the project in order to ensure there is no compromise on the quality of goods/services provided by the Bidder to the BECIL and its Client. The BECIL has a right to review and monitor the security practices and control procedures adopted by the Bidder. The Bidder shall produce and make available all such books, records, information, etc., related to project work for the purpose of Inspection/ audit as sand when required.
- b. That BECIL shall have the right to review and monitor the performance of the Bidders on a continuous basis system integrator shall furnish necessary particulars, statements, etc., as desired by the BECIL in a periodical manner for the purpose of assessment of their performance.

22 TERMINATIONS

- a. **Termination of Contract by BECIL due to unsatisfactory performance**

- a) If the Bidder refuses or fails to execute the specified quantum of work or any separate part thereof with diligence or ensure its completion within the time specified in the RFP, or subsequent work order issued thereto, then it shall be open to BECIL at its option by written notice to the Agency/Bidder to:
- b) To terminate the contract without prejudice to any other remedy available under the Contract. That a notice of cure, highlighting the deficiency or problem shall be served on the Agency /Bidder by BECIL, with an opportunity to cure the same within a period of 15 days. That on the non-resolution of deficiency, a notice of termination shall be served on the Agency/Bidder and the Contract shall be deemed terminated after a period of 15 days from the date of notice of termination.

b. Termination due to Breach

- a) BECIL may, without prejudice to any other remedy available for the breach of contract, may terminate the contract in sub-sequence to non –resolution of deficiency after the service of a notice of cure with a window period of fifteen days. After the end of the cure period, a 15 (fifteen) days’ notice shall be served on the Agency/ Bidder, and the contracts shall be deemed terminated after the end of the period of fifteen days from the date of notice of termination.
- b) The following sub-clauses shall attract the provision of termination, on the occurrence of the following events -:
 - (i) If the Bidder has abandoned or repudiated the Contract;
 - (ii) If the Bidder has without valid reason failed to commence work on the project promptly;
 - (iii) If the Bidder has persistently failed to execute the works/express deliverable in accordance with the Contract or persistently neglects to carry out its obligations under the Contract without just cause;
 - (iv) If the Bidder defaults in proceeding with the works/job with due diligence and continues to do so after a notice in writing of fifteen (15) days from BECIL;
 - (v) If the Bidder has obtained the contract as a result of undue of influence or adopted unethical means/ corrupt practices.
 - (vi) If the information submitted/furnished by the Bidder is found to be incorrect;

c. Termination due to Insolvency

- a) If the Agency/Bidder dissolves or become bankrupt or insolvent or cause or suffer any receiver to be appointed for its business of any assets thereof compound with his Creditors, or being a corporation commence to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its business under a Receiver for the benefits of its Creditors any of them, then BECIL shall be at liberty :-
- b) To terminate the contract forthwith upon coming to know of the happening of any such event as aforesaid by a fifteen day notice in writing to the Agency/Bidder or to give the Receiver or liquidator or other person, the option of carrying out the contract subject to its providing a guarantee upto an amount to be agreed upon by BECIL for due and faithful performance of

the contract.

d. Termination for Convenience

BECIL can terminate the Agreement by serving a 30 day notice without assigning any cause or reason to the Bidder/ selected agency. The contract shall be deemed terminated after a period of 30 days from the date of termination notice.

23 POST TERMINATION RESPONSIBILITY

- 23.1 In all cases of termination herein set forth, the obligations of BECIL to pay shall be limited to the period upto the date of termination, subject to the receipt of such payment from the Client.
- 23.2 That any pending bills raised by the Bidder, prior to or post the termination of the Contract on account of the breach of the terms and conditions of the contract, shall be put on hold, till the time, the corresponding payment is received from the Client and any amount deducted by the Client against the bills raised by BECIL shall be consequently deducted from the bills raised by the Bidder respectively.
- 23.3 The Bidder shall forthwith stop any of its work then in progress, except such work as BECIL may, in writing, require to be executed at the designated site/premises.
- 23.4 That in the event of termination under clause 17.1 and 17.2 the whole or part of the performance security furnished by the Agency/Bidder is liable to be forfeited without prejudice to the right of BECIL to recover from the Agency/Bidder any accruing or incurred losses or damages, on account of termination of contract due to unsatisfactory performance/ delay in execution of work.

24 NOTICES

- 24.1 Any notice, invoice, approval, advice, report or notification in connection with this Contract shall be in writing and any notice or other written communication pursuant hereto shall be signed by the party issuing the same and shall be addressed to the BECIL or the Bidder and may be given by delivering the same by hand or sending the same-by prepaid registered mail, official e-mail or facsimile to the relevant address forth below or such other address as each Party may notify in writing to the ether Party from time to time. Any such notice given as aforesaid shall be deemed to be served or received at the time upon delivery (if delivered by hand) or upon actual receipt (if given official e-mail or facsimile) or Fifteen (15) clear days after posting (if sent by post) at the Party's principal or registered office address as set out below:

**Mr. Binay Kumar Tiwari, DGM, BECIL
Broadcast Engineering Consultants India Ltd,
C-56/ A-17, Sector-62, Noida-201307, U.P., India.
Email: binaytiwari@becil.com**

25 NO WAIVER

- 25.1 No waiver of any term, provision, or condition of this Contract, whether by conduct or otherwise,

in any one or more instances, will be deemed to be or be construed as a further or continuing waiver of any such term, provision, or condition or as a waiver of any other term, provision, or condition of this Contract, unless the same is agreed upon and recorded in writing with mutual consensus of both the parties.

26 AMENDMENT:

26.1 Unless otherwise stated expressly, this Contract shall be modified only by an instrument in writing duly executed by both the parties.

27 ARBITRATION

27.1 Conciliation of Dispute

- a. Any dispute(s) /difference(s)/issue(s) of any kind whatsoever between/amongst the Parties arising under/out of/in connection with this contract shall be settled mutually and amicably between the Parties, within a time span of **thirty days** from the date of invocation of dispute vide a written notice by the Aggrieved party. The Aggrieved Party shall notify the other party in writing about such dispute(s)/difference(s)/issue(s) between/amongst the Parties and that such a Party wishes to refer the dispute(s)/ difference(s)/issue(s) to Conciliation. Such Notice/Invitation for Conciliation shall contain sufficient information as to the dispute(s)/ difference(s)/issue(s) to enable the other Party to be fully informed as to the nature of the dispute(s)/ difference(s)/issue(s), as well as the amount of monetary claim.
- b. That in the event of reference of dispute for Conciliation, a committee comprising of two members, nominated by each party i.e. the Bidder and BECIL respectively shall try to amicably resolve/settle the dispute.

27.2 Reference of Dispute to Arbitration proceeding post conciliation

- a) In the event of failure in mutual resolution of the issue, any dispute(s)/ controversy(s)/ issue(s) arising out of or in connection with the contract, including any question regarding its existence or validity shall be referred to and finally resolved by Arbitration administered by the Delhi International Arbitration Centre as per the Delhi International Arbitration Centre proceeding Rules 2023.
- b) The Aggrieved party wishing to refer a dispute to Arbitration shall give a notice to the Defaulting Party specifying all the points of dispute(s) with details of corresponding the claim amount.
- c) The Arbitration Proceeding shall commence within a span of **thirty days** from the date of receipt of Invocation Notice complete in all respects as mentioned above,
- d) The dispute(s)/ difference(s)/controversy(s) shall be adjudicated by a single/sole Arbitrator empaneled with the Delhi International Arbitration Centre.
- e) The seat of Arbitrations shall be at New Delhi and the Arbitration proceeding shall be conducted in English.
- f) The award of Sole Arbitrator shall be final and binding on the parties and unless directed/awarded otherwise by the Sole Arbitrator, the cost of arbitration proceedings shall be shared equally by both the parties.
- g) The provision of the Arbitration and Conciliation Act, 1996 as amended and applicable from time to time shall apply to the Arbitration proceedings under this Contract.

- h) That any claim of damage(s) or losse(s) incurred by BECIL as a consequence of the invocation of the litigation/arbitration proceeding owing to the suspension or abandonment of work by the Bidder/Agency shall be reimbursed by the Bidder/Agency.
- i) That if BECIL considers that a dispute under this contract, involves an issue that is related to a dispute under the main contract, then in that event, the Bidder shall assist the main contract, then in that event, the Bidder during the course of arbitration/legal proceedings emanating from the main contract. Then in that event of initiation of arbitration/legal proceeding , under the main contract , no dispute tied directly to the main contract shall be concurrently referred by the Bidder .

28 JURISDICTION

- 28.1 This Agreement, and any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with it or its subject matter or formation, shall be governed by, and construed in accordance with, the laws of India. The Courts at Delhi shall have the exclusive jurisdiction to entertain any matter arising out of or in relation to this Contract.

29 Force Majeure

- 29.1 For the purpose of this Contract, the term “Force Majeure” shall mean an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable and not brought about by or at the instance of the Party claiming to be affected by such events and which has caused the non-performance or delay in performance ,and which makes a Party’s performance of its obligations hereunder impossible or impractical as reasonable to be considered impossible in the circumstance, inclusive of but not limited to war, riots, civil disorder, earthquake, fire, strikes, lockouts or other industrial action (except where such strikes lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent) , confiscation or nay other action by the Government Agencies.
- 29.2 Force Majeure shall not include (i) any event which is the caused by the negligence or intentional action of a Party or by of such Party’s agents or employees , nor(ii) any event which a diligent party could reasonably have been expected both to take into account at the time of the acceptance of the work order under this RFP, and avoid or overcome with persistent effort in carrying out its respective obligations.
- 29.3 In the case of failure to perform this Agreement due to any force majeure, neither party shall be liable for such failure, and this Agreement shall be terminated automatically, if the persistence of such force majeure event continues for more than three months. In the case of failure to perform any part of this Agreement due to any force majeure, the party suffering from such force majeure may be exempted from corresponding liability to the extent of the impact of such force majeure. However, such party shall continue to perform other obligations under this Agreement which have not been affected by such force majeure.

30 SUBCONTRACTING

- 30.1 The Bidder shall not subcontract the entire or any portion of the work to be performed by it, without the prior written consent of BECIL.

31 EXTENSION OF TIME

- 31.1 It is hereby agreed that BECIL shall by mutual agreement update and extend the timeline/ milestone for the completion of work after discussion with the Client and its officials.
- 31.2 Any period within which Bidder is unable to complete the work or perform its obligations due to persistence of force majeure event, shall be extended for a period equal to the time during which the Bidder was unable to perform such action.
- 31.3 Any extension of time agreed upon mutually shall be documented in writing and signed by both the parties to be affected.

32 ASSIGNMENT:

- 32.1 All terms and provisions of this RFP and subsequent Contract/ Agreement / work order with the successful Bidder shall be binding on both the parties and their respective successors and permitted assigns.
- 32.2 Subject to clause mentioned above, the selected Agency shall not be permitted to assign its rights and obligations, under the Contract/ Agreement / work order, to any third party.
- 32.3 BECIL may assign or novate all or any part of the Contract/ Agreement / work order and the Agency shall be a party to such novation, to any third party contracted to provide outsourced services to BECIL or any of its nominees.

33 COMPLIANCE WITH APPLICABLE LAW:

Each Party to the Contract/ Agreement / work order accepts that its individual conduct shall (to the extent applicable to it) always comply with all laws, rules and regulations of government and other bodies having jurisdiction over the area in which the Services are undertaken. In case of changes in such laws, rules and regulations which result in a change to the Services, shall be dealt with as an exceptional situation with the objective to realign the part getting violated under the revised laws with minimal changes to achieve the objective existent prior to the change. For avoidance of doubt, the obligations of the Parties to the Contract are subject to their respective compliance with all local, state, national, supra-national, foreign and international laws and regulations.

34 SEVERABILITY:

- 34.1 If any provision of the Contract/ Agreement / work order, or any part thereof, shall be found by any court or administrative body of competent jurisdiction to be illegal, invalid or unenforceable; the illegality, invalidity or un-enforceability of such provision or part provision shall not affect the other provisions of the Contract/ Agreement / work order or the remainder of the provisions in question which shall remain in full force and effect. The concerned Parties shall negotiate in good faith to agree to substitute for any illegal, invalid or unenforceable provision with a valid and enforceable provision which achieves to the greatest extent possible the economic, social, legal and commercial objectives of the illegal, invalid or unenforceable provision or part provision.

35 ENTIRE CONTRACT:

- 35.1 The Contract/ Agreement / work order with all Appendices and Schedules appended thereto,

contents and scope/ specifications of the RFP, all the corrigendum's, response to queries etc. that may be issued against this RFP and the Bidder's offer including presentation and all supporting documents shall constitute the entire Contract/ Agreement / work order between the Parties with respect to their subject matter, and as to all other representations, understandings or agreements which are not fully expressed herein, provided that nothing in this clause shall be interpreted so as to exclude any liability in respect of fraudulent misrepresentation.

36 LIQUIDATED DAMAGES

- 36.1 If the Bidder fails to achieve the completion of the work in accordance with the scheduled completion date as given in the Contract or the subsequent Work Order issued thereto, BECIL may without prejudice to any other right or remedy available to it as under the Contract or Law:
- 36.2 In case of any liquidated damages imposed on BECIL by the Client, BECIL shall pass on the entire quantum of liquidated damages to the bidder/ selected agency on back-to-back basis.
- 36.3 The amount towards Liquidated Damages shall become leviable from the scheduled completion date or from the expiry of the extension, if any, given by BECIL without the levy of Liquidated damages.
- 36.4 BECIL may without prejudice to its right to effect recovery by any other method, deduct the amount of Liquidated Damages from any money belonging to the Bidder which has become due or payable (which shall also include BECIL 's right to claim such amount against Bidder's Bank Guarantee) from this Contract or any other contract with BECIL.
- 36.5 Any such recovery of Liquidated Damages shall not in any way relieve the Bidder from any of its obligations to complete the works or from any other of its other obligation and liabilities under the Contract.

37 POWER OF ATTORNEY

Duly filled Technical Bid with proper seal and signature of authorized person on each page of the bid submitted. The person signing the bid should be the duly authorized representative of the firm/ company whose signature should be verified and certificate of authority should be submitted. The power of attorney or authorization or any other document consisting of adequate proof of the ability of the signatory to bind the firm/ company should be annexed to the bid.

38. SIGNING OF NON-DISCLOSURE AGREEMENT

Except with the written consent of the Buyer, the bidder shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

Bidders interested to participate in this RFP, shall have to sign a NON-DISCLOSURE AGREEMENT with BECIL on a non-judicial stamp-paper of Rs. 100. Participation without undertaking for compliance to above shall be invalid and such bids shall not be considered by BECIL.

39. MSME

39.1. The Bidder acknowledges and confirms that BECIL shall be liable to make payments only upon receipt of corresponding payments from the Principal Employer/client. Accordingly, the Bidder shall not raise any claims, demands, interest, compensation, or initiate any legal proceedings against BECIL for any delay in payment arising out of delayed release of funds by the Principal Employer/client.

39.2. Since the payment is agreed to be on back-to-back basis upon receipt by BECIL from the Client, the Bidder agrees to waive any rights under the Micro, Small and Medium Enterprises Development Act, 2006 (MSMED Act) or any similar legislation or regulation, to the extent such rights conflict with the agreed payment terms under the Bidder Agreement. The Bidder further waives its right to claim Interest on delayed payment by BECIL, under the Micro, Small and Medium Enterprises Development Act, 2006 (MSMED Act) or any similar legislation or regulation for the time being in force in India.

39.3. The bidder to give the undertaking as per Annexure – M, on a non-judicial stamp-paper of Rs. 100.

SECTION –IV

SCOPE OF WORKS

41. SCOPE OF WORK/SCHEDULE OF REQUIREMENTS

41.1 For detailed scope of work of the project & the Bill of Material, the bidders may refer the Client's Tender document, and its amendments & corrigenda issued subsequently (if any); **Tender details references are as below and the same is also attached along with this EOI.** (*Bidders are instructed to check for any new corrigendum/amendments etc. before bidding*)

Client's Tender Reference No.: GEM/2025/B/6999774 dated 15/12/2025 Titled "Supply, Installation, testing & commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with VMS and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL HQ, along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP-Cameras with three years warranty and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions".

Website: gem.gov.in

41.2 All the Scope of work and relevant General Condition as well as special condition of the client tender shall be applicable to the selected bidder on back to back basis and the same shall be part of the agreement signed between BECIL and selected bidder.

SECTION –V

ELIGIBILITY CRITERIA AND EVALUATION

42. ELIGIBILITY CRITERIA AND EVALUATION

S.No.	Eligibility Criteria	Documents to be submitted
1	<p>The Bidder shall be Company incorporated /registered in India under Companies Act 1956/ 2013, as amended from time to time or Limited Liability Partnership Act, 2008 or Proprietorship;</p> <p>1.2 The Bidder should be in existence of at least 5 completed years.</p>	<p>a. RoC certificate in case of Company. b. Partnership Deed in case of Partnership Firm. c. Self-Declaration on Letter head with PAN & GST numbers in case of Proprietary Firm. d. Memorandum and Article of Association e. Other relevant documents in case of company, proprietors and Partnership firm indicating details of Director/ proprietors/ Partner f. The bidder shall have the registration with EPFO and ESIC. g. Other registration certificate, if any required.</p>
2	<p>The bidder should not be insolvent, in receivership, bankrupt or being wound up, not have had their business activities suspended and not be the subject of legal proceedings for any of the foregoing.</p>	<p>Certificate by the Bank.</p> <p>Note: certificate must be issued after the publishing of this EOI.</p>
3	<p>The Bidder should not be blacklisted/ debarred/ banned/ restricted by any Union Govt./State Govt./ PSU/Autonomous bodies as on date of submission of the Bid.</p>	<p>“Self-declaration for blacklisting as per the given annexure” duly signed by authorized signatory signing the bid, should be submitted.</p>
4	<p>The Average Annual Turnover of the bidder for the last three financial years ending 31 March 2025 should be at least INR. 14.53 Crores.</p> <p>The turnover should be excluded of other income for each of the financial year mentioned above.</p>	<p>a. Certificate by the CA as per Annexure D. b. Audited financial statements of last three financial years. i.e. 2022-23, 2023-24 & 2024-25. c. ITR Acknowledgment last three financial years.</p> <p>Note: CA certificate must be issued after the publishing of this EOI.</p>
5	<p>The bidder should have positive net worth as per the audited financial results for the last three Financial Years ending 31 March 2025.</p>	
6	<p>Bidder must have the solvency / credit facility / financial capability from the bank for minimum value of 25% of estimated cost of project/work.</p>	<p>Certificate/ Sanction letter from the Bank. Certificate must be issued after the publishing of this EOI.</p>

7	<p>The Bidder, should have Supplied, Installed and Commissioned and/or maintained at least any one of the following works:</p> <p>i. Integrated Command & Control Centre (ICCC) through CCTV IP cameras</p> <p>(OR)</p> <p>ii. CCTV IP cameras surveillance system</p> <p>(OR)</p> <p>iii. Centralized Monitoring System with VA/VMS through CCTV IP cameras</p> <p>within last 7 years prior to the original schedule date of tender opening, in any Government/ Quasi Government/PSU/PSE/Public Limited Company, in their own name /in the name of any one of the partners, as given below:</p> <p>a. One work of executed value not less than Rs. 739.94 Lakh (excluding GST) in a single Contract agreement/work order (OR)</p> <p>b. Two works of executed value each not less than Rs. 462.46 Lakh (excluding GST) in two Contract agreements/work orders (OR)</p> <p>c. Three works of executed value each not less than Rs. 369.97 Lakh (excluding GST) in three Contract agreements/work orders.</p>	<p>Copies of experience certificate of equivalent document in support of satisfactory completion of CCTV installation from clients shall be provided. The experience certificate should be signed by an authorized signatory.</p>
8	<p>The personnel/workmen engaged by the bidder for execution of works in NLC India Limited shall be in the rolls of the bidder agency and shall have to be given appointment letter/ Employment card under CL (R&A) Act 1970 issued by the bidder to that effect</p>	<p>The bidder has to upload scanned copy of undertaking while submitting bid online</p>
9	<p>All Annexure and Undertakings/ information requested by client in tender document should be submitted to BECIL on back to back basis.</p>	<p>Relevant annexures as per bidder eligibility to be provided as per original tender.</p>

CONDITIONS WITH RESPECT TO PARTNERSHIP FIRM:

- i. In case of bid submitted by any partnership firm, the prequalification work experience of partnership firm / any of the Partners of the firm shall be considered for evaluation. However, the financial Turn Over and Net Worth requirement, if any specified shall be fulfilled by the Partnership firm only.
- ii. If the bidder is a partnership firm, the partner on whose prequalification the work was awarded, shall not withdraw from the partnership till the completion of the work in case they happened to be the successful bidder. If there is any reconstitution of the partnership, it is the responsibility of the firm to intimate the same to NLCIL immediately. Otherwise the contract will be liable for termination at the risk & cost of the contractor.

iii. If the work experience is furnished in the name of any of the partner of Partnership Firm, to satisfy the prescribed prequalification requirement in the tender, a declaration/undertaking from that partner as “I shall not withdraw from the partnership till the completion of the work, in case our firm happened to be the successful bidder” is to be uploaded online.

iv. In case of a bidder being a partnership firm and using the PQR of a Partner to qualify in the tender and if the same PQR is used by more than one bidder for the same tender, all the bidders using the same PQR will be disqualified.

v. In case, a bid is submitted by a partnership firm, any partner(s) of that Partnership firm cannot bid separately for the same Tender. If the Bid is submitted by both the partnership firm & any partner(s) of that Partnership firm in the same tender, the bids of the Partnership firm and partner(s) will be disqualified.

Note: For details such as Instructions to Bidders, Tender terms & conditions and for participation in online tendering visit GeM Portal (<https://gem.gov.in>).

43. PRELIMINARY EVALUATION

41.1 BECIL shall evaluate the proposals to determine that they are complete, technically complying, no computational errors have been made, required documents as mentioned in the EOI have been furnished, the documents have been properly signed and the response is generally in order.

41.2 BECIL may waive off any minor infirmity or non-conformity or irregularity in the proposal which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.

41.3 In case only one bid is received or during the Technical Evaluation only one bidder qualifies for the next stage of the evaluation process, BECIL reserves the right to accept/ reject the bid.

41.4 In case two bids are received from the same bidder, both the bids will be rejected.

44. EVALUATION PROCESS

44.1 No enquiry/ query shall be made by the bidders during the course of evaluation of the EOI, after opening of bid, till final decision is conveyed to the successful bidder. However, the Evaluation Committee/ its authorized representative and office of BECIL can make any enquiry/ seek clarification from the bidders, which the bidder must furnish within the stipulated time else the bids of such defaulting bidders will be rejected. The proposal will be evaluated on the basis of its content, not its length.

44.2 The bidder's proposals will be evaluated as per the requirements specified in the EOI and adopting the evaluation criteria spelt out in subsequent paras of this EOI document. The bidders are required to submit all required documentation as per evaluation criteria specified in EOI.

44.3 Upon verification, evaluation/ assessment, if in case any information furnished by the bidder is found to be incorrect, their bid will be summarily rejected and no correspondence on the same shall be entertained. Submission of false/ forged documents will lead to forfeiture of security deposit/ EMD and blacklisting of agency for a minimum period of 3 years from participating in BECIL EOI/tenders.

44.4 BECIL will review the proposal to determine whether the proposals are as per the requirements laid down. Proposals that are not in accordance with these requirements will be liable to be disqualified at BECIL's discretion.

44.4.1 Evaluation of proposals shall be based on:

44.4.2 Information contained in the proposal, the documents submitted there to and clarifications provided, if any.

44.4.3 Experience and Assessment of the capability of the bidders based on past record.

44.5 BECIL reserves the right to seek any clarifications on the already submitted bid documents. BECIL also reserves the right to cross verify the information with any agency.

44.6 Conditional proposals shall NOT be accepted on any ground and shall be rejected straightway. If any clarification is required by the bidders, the same should be obtained before submission of the proposals.

44.7 Even though bidder satisfy the necessary requirements they are subject to disqualification if they have:

44.7.1 Made untrue or false representation in the form, statements required in the EOI document.

44.7.2 Records of poor performance such as abandoning work, not properly completing contract, financial failures or delayed completion.

44.8 The Financial Evaluation of the Bidders will be done only for those who qualify the Eligibility Criteria and other mentioned criteria of the EoI.

45. FINANCIAL EVALUATION:

45.1 Bidders are advised to quote the lump sum amount of the BOQ as per the Price bid format provided. The successful bidder will be determined based on the Lowest offered rates ranked as L-1, where L1 indicates the Lowest price offered to BECIL as per price format

45.2 L1 bidder may be called for further negotiations, if required.

45.3 A Pre-Bid agreement shall be signed by BECIL with the successful declared L1 bidder.

45.4 The final price quoted in the end client's tender will include the BECIL margin, as determined by BECIL.

45.5 The selected agency will not be allowed to increase the price quoted to BECIL during the final tender submission.

SECTION –VI

ENCLOSURES AND ANNEXURES

PRE-CONTRACT INTEGRITY PACT

Between

Broadcast Engineering Consultants India Limited (BECIL) hereinafter referred to as "Principal")

And

..... hereinafter referred to as "**The Bidder/Contractors**"

Preamble:

The Principal intends to award, under laid down organizational procedures, contracts **for**..... The Principal values full compliance with all relevant laws of the land, rule, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder(S) and / Contractor(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

1.1. The Principal commits itself to take all measures necessary to prevent Corruption and to observe the following principles: -

- a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or Immaterial benefit which he/she is not legally be entitled to.
- b) The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- c) The Principal will exclude all known prejudiced persons from the process.

1.2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/ Contractor(s)

2.1. The bidder(s) Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- a) The Bidder(s) Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract/ or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- b) The Bidder(s) Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- c) The Bidder(s) Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s) Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d) The Bidder(s) Contractor(s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder(s) Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" Shall be disclosed by the Bidder(s) / Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/ representative have to be in Indian Rupees only.
- e) The Bidder(s) Contractor(s) will, when presenting himself, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract/Agreement.

2.2. The Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder(s) Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s) Contractor(s) from the tender process or take action as per the defined procedure.

Section 4 – Compensation for Damages

4.1. If the Principal has disqualified the contractor from the tender process prior to the award according to

Section 3, the Principal is entitled to demand and recover the damages Equivalent to Earnest Money Deposit / Bid Security.

4.2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 – Previous transgression

5.1. The Bidder(s) contractor declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the Anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

5.2. If the contractor makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in “Guidelines on Banking of business dealings”.

Section 6 – Equal treatment of all Bidders/Contractors/Subcontractors

6.1. The Bidder(s) Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact and to submit it to the Principal before contract signing.

6.2. The Principal will enter into agreement with identical conditions as this one with all Bidders, Contractors and Subcontractors.

6.3. The Principal will disqualify from the tender process all bidder who do not sign this Pact or violate its provisions.

Section 7 – Criminal charges against violating Bidder(s)/ Contractor(s)/Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same Chief Vigilance Office.

Section 8 – External Independent Monitor/Monitors

8.1. Principal may appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

8.2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD of M/s Broadcast Engineering Consultants India Limited (BECIL).

8.3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under

contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality.

8.4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

8.5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

8.6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.

8.7. If the Monitor has reported to the CMD of the BECIL, a substantiated suspicion of an offence under relevant APC/PC Act, and the Chairman BECIL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8.8. The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 20 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by CMD, M/s. Broadcast Engineering Consultants India Limited.

Section 10 – Other provisions

10.1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the head office of the Principal, i.e., New Delhi.

10.2. Changes and supplements as well as termination notices need to be made in writing. Side agreement have not been made.

~~10.3. If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.~~

10.4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

FOR AND ON BEHALF OF CONTRACTOR

FOR AND ON BEHALF OF PRINCIPAL

Annexure-B (BANK MANDATE FORM)

यूनियन बैंक  **Union Bank**
of India



(A Govt. of India Undertaking)
MID CORPORATE BRANCH, DELHI SOUTH
D -26-28, Connaught Place, NEW DELHI -110001
Tel:+91-9137849790; Fax: 01-11 23414330 ; Swift: UBININBBNDL
Email: ubin0549797@unionbankofindia.bank

Ref.: MCB:ADV:ATL:2022-23:

Date: 18.01.2023

TO WHOMSOEVER IT MAY CONCERN

A	Name of the Beneficiary	BROADCAST ENGINEERING CONSULTANTS INDIA LIMITED
i	Address with Pin Code	BECIL Bhawan, C-56/A17, Sector -62, Noida - 201307 (U.P)
ii	Permanent Account Number (PAN)	AAACB2575L
iii	(a) Telephone No.	0120-4177861
	(b) Fax Number	0120-4177879
	(c) Contact Person	Sh. Awadhesh Pandit General Manager - (Finance and Accounts)
	(d) E-mail Address	panditmd@becil.com
	(e) Mobile No.	+91-8130918866
B	Bank Particulars	
i	Bank Name	UNION BANK OF INDIA
ii	Bank Contact No	+91-9137849790
iii	Branch Address with Pin Code	26/28, 1 st Floor, D Block, Connaught Place, New Delhi, 110001.
iv	BSR Code	549797
v	MICR	110026046
vi	SWIFT CODE	UBININBBNDL
Vii	11 Character IFSC Code of the Bank (Either enclosed a cancelled Cheque or obtain Bank Certificate as appended)	UBIN0549797
Viii	Bank Account Number as appearing on the Cheque Book	565101000065461
ix	Bank Account Type	Overdraft
X	If other, Specify	--

**This certificate is issued on the specific request of our customer without any risk and responsibility on the part of the bank or any of its employees.*

Bank Stamp with Authorized Signatory



Date 20-01-2023

Page 1 of 1

Particulars of The Bidder

1.	Name of company/bidder	
2.	Office Address /Telephone No / Fax No / email id / website	
3.	Year of establishment	
4.	Status of the Company/bidder	
5.	Name of Directors	i)
6.	Names of principle person concerned with this work with title and Telephone No / Fax/ Email Id, Etc.	
7.	Whether registered with the registrar of companies /registrar of firms. If so, mention number and date.	i) ii) ii)
8.	In case of change of Name of the Firm, former Name / Names and year/ years of establishment:	
9.	GST registration certificate	
10.	Whether an assessed of income tax. If so, mention permanent account number.	
11.	State Annual turnover of the company/bidder Furnish copies of audited balance sheet and profit & loss account (audited) for the last three years.	
12.	Particulars and place of similar type of works done in a single order and tender amount. (Furnish details in a separate sheet and enclose copy of the employers certificate)	
13.	Specify the maximum value of single work executed in the past three years.	
14.	Status and details of disputes/ litigation/ arbitration, if any.	
15.	Certificate of financial capability / credit facility issued by the bank.	

Signature of Authorized Signatory

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____

Annual Turnover & Net worth

(To be printed on implementing agency's letterhead and signed by Authorized signatory.)

To
The General Manager
Broadcast Engineering Consultants India Limited
BECIL Bhawan, C-56, A/17, Sector-62, Noida-
201307

Full Name of Bidder (Supplier) entity:

Full Address of Bidder (Supplier) entity:

S. No.	Financial Year	Turnover of Bidder	Net worth	Remarks
1	2022-23			
2	2023-24			
3	2024-25			
	Average			

*Enclose Audited Financial statement for above mentioned period along with audit report.

Note: The required certificate from CA with UDIN No. is enclosed along with this form. Certificate without UDIN No. will be rejected.

Signature of Authorized Signatory

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____

Performa of letter of Undertaking for Bid Validity

To
General Manager
Broadcast Engineering Consultants India Limited
BECIL Bhawan, C-56, A/17, Sector-62, Noida-
201307

Reference: EOI No. <<>> dated << 202X>>

I/We hereby submit our Bid and undertake to keep our Bid valid for the period of 240 days from the date of submission of the Bid.

I/We also agree to abide by and fulfill all the terms, conditions of provision of the bid document.

Signature of Authorized Signatory

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____

Bid Covering Letter

To
General Manager
Broadcast Engineering Consultants India Limited
BECIL Bhawan, C-56, A/17, Sector-62, Noida-
201307

Reference: EOI No.<<>> dated << 202X>>

Dear Sir/Madam,

We, the undersigned, offer to provide Systems Implementation solutions/ services to the Purchaser on <Name of the Systems Implementation engagement> with your Expression of Interest dated <insert date>and our Proposal. We are hereby submitting our Proposal, which includes our Technical bid sealed on the <URL of e-Procurement portal> portal.

We hereby declare that all the information and statements made in this Technical bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our Proposal is accepted, to initiate the Implementation services related to the assignment not later than the date indicated in Fact Sheet.

We agree to abide by all the terms and conditions of the EOI document. We would hold the terms of our bid valid for <240> days as stipulated in the EOI document.

We understand you are not bound to accept any Proposal you receive.

Signature of Authorized Signatory

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____

Credentials Summary

S. No.	Project Name	Client Name	Client Type	Project Value (in INR)	Documentary evidence provided (Yes or No)	Project Status (Completed or Ongoing or Withheld)
1						
2						
3						
4						
5						

Signature of Authorized Signatory

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____

Self-Declaration For Non Black Listing

ON BIDDER'S LETTER HEAD

Bidder Ref. No.

..... Dated :

.....

.

To
General Manager
Broadcast Engineering Consultants India Limited
BECIL Bhawan, C-56, A/17, Sector-62, Noida-
201307

We, M/s. ----- hereby declare that the firm/company namely M/s. -----
-----, as on the date of bid submission, has not been blacklisted or debarred by any of the Central
Government or State Government or any organization under Central/ State Government or any Statutory
Authority, or any Public- Sector Undertaking.

M/s has not been found guilty of any criminal offence by any court of law in India
or abroad.

M/s, its directors and officers have not been convicted of any criminal offence related to
their professional conduct or the making of false statement or misrepresentations as to their qualifications to
enter into procurement contract within a period of three years preceding the commencement of the
procurement process or have not been otherwise disqualified pursuant to debarment proceedings.

Yours faithfully

For,

Signature of Authorized Signatory

Place: _____

Date: _____

Address: _____

Mobile: _____

Email ID: _____

Undertaking Regarding Payment Of GST/ Filing Of GST Return

Ref..... Date

To,
The Chairman and Managing Director,
Broadcast Engineering Consultants India
Limited, 56-A/17, Block-C, Sector-62, Noida-
201307 (U.P.)

Subject: Undertaking regarding Payment of GST/ Filing of GST Return

Dear Sir,

This is in connection to the works awarded by M/s Broadcast Engineering Consultants India Limited (BECIL), we hereby undertake that we will comply with Goods and Services Tax 2017 and subsequent amendment and Various Rules Relating to GST Act, 2017(herein after referred to as GST Act and Rules) wherever we are obliged to comply with the GST Act and GST Rules.

We further hereby undertake that we will issue proper “**Tax Invoice**” and/or any other Relevant Document as required under GST Act and Rules. We will furnish appropriate GST return and pay GST as required under GST Act and Rules on timely basis and will provide GST credit on timely basis through GST Portal (and/or by any other means as provided by GST Act and Rules).

We hereby certify & undertake that we will not alter, delete or modify the tax invoices and other details uploaded at GST Portal unless approved by BECIL in writing. We hereby certify all the relevant document along with tax invoice as the case may be

We also hereby certify & undertake that we indemnify BECIL on account of any loss of GST input credit as well as any interest, penalty, demands or other costs, expenses suffered by BECIL because of any failure on our part to file appropriate Return on time and/or pay Tax to Government/Appropriate Authority.

In case we do not make payment the tax/interest/penalty/other expenses etc. on demand raised by Government/Tax Authorities due to default/delay on our part/action, we also authorize BECIL to forfeit/deduct from security held by BECIL, equivalent amount of interest/penalty/tax etc. for the amount so withheld.

Signature of Authorized Signatory on behalf of

Agency Address: _____

Mobile: _____

Email ID: _____

Power of Attorney for signing the Bid on Rs. 100 Stamp Paper

KNOW ALL MEN BY THESE PRESENTS,

We, [Name of Bidder] do hereby irrevocably constitute, nominate, appoint and authorize _____, who is presently employed with us and holding the position of “_____”, as our true and lawful attorney (*hereinafter referred to as the “Attorney”*) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for qualification and submission of our bid for the Project “**Name of Project**” of “_____” (the “client”) including but not limited to signing and submission of all applications, bids and other documents and writings, participate in pre-applications and other conferences and providing information/ responses to the client, representing us in all matters before the client, signing and execution of all contracts including the Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the client in all matters in connection with or relating to or arising out of our bid for the said Project and/ or upon award thereof to us and/or till the entering into of the Agreement with the client. The act done by _(Name of authorized person) will be binding on the selected bidder.

IN WITNESS WHEREOF WE, (Name of Bidder)_, THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF

Date_____.

For **Name of Bidder**,

Executed

Accepted

Witnesses _

LAND BORDER DECLARATION CERTIFICATE

Restrictions on procurement from Bidders from a country or countries, or a class of countries under Rule 144(xi) of the General Financial Rules 2017.

EOI Document No: Date:

Bidder’s Name, Address & contact details:

..... Bidder’s Reference No.

..... Date:

Restrictions on procurement from Bidders from a country or countries, or a class of countries under Rule 144(xi) of the General Financial Rules 2017.

I/We certify that this Bidder is not from such a country or if from such a country has been registered with the Competent authority. I hereby certify that this bidder fulfills all requirements in this regard

I/We certify that this Bidder is not from such a country or if from such a country has been registered with the competent authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and also undertake to advise any future changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of Code of integrity and would attract penalties as mentioned in this tender document, including debarment.

(Signature with date)

(Name and designation)

Duly authorized to sign Bid for and on behalf of

(Name & address of the Bidder and Seal of Company)

PRICE BID FORMAT

SELECTION OF BACKEND TECHNICAL PARTNER/SYSTEM INTEGRATOR FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING (SITC) OF INTEGRATED COMMAND & CONTROL CENTRE (ICCC) FOR CCTV SURVEILLANCE SYSTEM WITH VMS AND ARTIFICIAL INTELLIGENCE (AI) BASED VIDEO ANALYTICS (VA) AT NLCIL HQ, ALONG WITH FIVE UNIT MONITORING STATION AND CCTV SURVEILLANCE SYSTEM AT NLCIL MINES AS PER SITE REQUIREMENTS FOR CENTRALIZED MONITORING OF LIVE FOOTAGE OF IP-CAMERAS WITH THREE YEARS WARRANTY AND THREE YEARS OF CAMC FROM THE NEXT DAY OF COMPLETION OF WARRANTY ALONG WITH NECESSARY LICENSE AND PERMISSIONS.

Period of work: 1. For Supply of all materials (excluding deployment of technical manpower) as given in schedule - Within 90 days from the date of LOA.
2. For Installation, testing & commissioning (along with Civil Works) - Within 180 days from the date of LOA.
3. Warranty Period: 03 years from immediately next day of the date of Commissioning of the system i.e. 36 months
4. CAMC Period: 03 years from the next day of completion of warranty period of the system i.e. 36 months
Note: The overall contract period is 06 years and 06 months i.e. 78 months from the date of LoA

SITC Charges

Sl.No	Description	Qty	Uo M	Total Cost in Rs.(without GST)	Total GST Amount in Rs.	Total Cost in Rs.(inclusive of GST)
1	Supply, Installation, Testing & Commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with Video Management Software (VMS) and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL Headquarter (HQ), along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP cameras along with necessary licenses and permissions with three	1	SET	0.00	0.00	0.00

	years warranty from the next day of commissioning. Note: The bidder shall enter the individual rate against each BoQ item (List provided as Annexure A) and the aggregate of these values shall constitute the SITC value to be entered here. Charges towards manpower deployment during the SITC and warranty periods shall not be reimbursed separately, and therefore the SITC value quoted shall be inclusive of these costs. Bidders are advised to quote accordingly.				
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Total SITC Charges Inclusive of GST(A)	0.00
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3 Years of CAMC Charges

Sl.No	Description	Qty	Uo M	Unit Rate in Rs. (without GST)	Total Cost (without GST)	GS T in %	GST Amount in Rs.	Total Cost in Rs. (with GST)
1	CAMC Charges for the 1st year	1	LS M		0		0.00	0.00
2	CAMC Charges for the 2nd year	1	LS M		0		0.00	0.00
3	CAMC Charges for the 3rd year	1	LS M		0		0.00	0.00

Total CAMC Chrages(exclusive of GST)	0
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Total CAMC Chrages(inclusive of GST) (B)	0
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Total BID value (SITC and CAMC) (exclusive of GST)	0.00
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Grand Total Amount (SITC and CAMC) (inclusive of GST) (C= A+B)	0.00
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Annexure-A

Sl.No	Description	Qty	Uo M	Unit Rate in Rs. (without GST)	Total Cost (without GST)	GS T in %	GST Amount in Rs.	Total Cost in Rs. (with GST)
1	SITC of Workstation having Intel Core i7 - 14th Generation, 16GB DDR RAM, NVIDIA 4GB Graphics Card, 1TB SSD Hard disc drive, Windows 11 pro OS.	10	NO S		0.00		0.00	0.00
2	SITC of Server having 2x 24-core/48-thread(48C,96T), 2.6GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM, 2x 1 TB SSD in RAID1 configuration for OS & VMS, 2 x 2TB SSD HDD for Alerts/event and Incident snapshots, 4x Nvidia L4 (24 GB) or better,4x1G/10G Server Adapter (loaded) or more, linux OS-latest version (suitable for AI & ML based Video Analytics Software).	5	NO S		0.00		0.00	0.00
3	SITC of 32 Channel Network Video Recorder with minimum 15 days backup.	20	NO S		0.00		0.00	0.00
4	SITC of 27 U Rack .	5	NO S		0.00		0.00	0.00
5	SITC of Interior for local station.	5	NO S		0.00		0.00	0.00
6	ESE lightning protection system complete with all components including multi strand copper down conductor, 02 Nos. earth pits with earth electrode as well as chemical back filling compound,lightning strike counter meter and ESE air terminal	6	NO S		0.00		0.00	0.00

	and all pipes and fixtures for installation.							
7	SITC of 2MP PTZ Camera IR range min. 500mtrs, 45x optical zoom.	45	M		0.00		0.00	0.00
8	SITC of IP Based 4MP Box camera with IR 150Meter for ANPR VA.	1	NO S		0.00		0.00	0.00
9	SITC of IP based 4MP 150mtr IR bullet camera.	104	NO S		0.00		0.00	0.00
10	SITC of RF Modems - (i) POINT TO POINT WIRELESS DEVICE (RF) with built-in internal antenna 5GHz 200Mbps 15dBi Outdoor @ 3 km distance or better. (ii) POINT TO POINT WIRELESS DEVICE(RF) with external antenna 5GHz 800Mbps 23dBi Outdoor @ 15km distance or better.	49	M		0.00		0.00	0.00
11	Outdoor Pole 6 Mtrs.	32	No s		0.00		0.00	0.00
12	Outdoor Towers 30 mtrs	15	No s		0.00		0.00	0.00
13	Outdoor Weather Proof Rack to place Switch & other accessories	49	NO S		0.00		0.00	0.00
14	SITC of 8 port POE industrial grade Gigabit switches with 2 SFP Ports loaded	49	NO S		0.00		0.00	0.00
15	SITC of IP Horn Speakers for Outdoor	193	NO S		0.00		0.00	0.00
16	SITC of IP Column Speakers for Indoor.	5	NO S		0.00		0.00	0.00
17	SITC of CAT6 23 AWG Cable tested upto 700 Mhz.	5000	NO S		0.00		0.00	0.00

18	Suitable PVC conduit for CAT6 cable	5000	NO S		0.00		0.00	0.00
19	SITC of Single Mode Optic Fibre cable 12 core.	1000	NO S		0.00		0.00	0.00
20	SITC of 24 Port LIU loaded.	25	NO S		0.00		0.00	0.00
21	SC-LC Pigtails	36	NO S		0.00		0.00	0.00
22	SC-LC Patch cords	36	NO S		0.00		0.00	0.00
23	HDPE Conduit for optic fibre cable	1000	NO S		0.00		0.00	0.00
24	SITC of IP based paging Microphone with Touch Screen.	5	NO S		0.00		0.00	0.00
25	SITC of Base License Supports Licenses for Video Management Software at Mines.	5	NO S		0.00		0.00	0.00
26	VMS per Channel License - For Individual Mines	500	NO S		0.00		0.00	0.00
27	Cost of Supply, installation and commissioning charges including System Integration	1	LS		0.00		0.00	0.00
28	SITC of 3T industrial Air conditioner (24/7).	14	NO S		0.00		0.00	0.00
29	SITC of 75" LED display (24/7).	5	NO S		0.00		0.00	0.00
30	SITC of 5KVA Online UPS with 4hours backup with SNMP card for remote monitoring.	5	NO S		0.00		0.00	0.00

31	<p>SITC of Server with Video Management Software & ICCC Platform, 2x 16-core/32-thread(32C,64T), 2.1 GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM,2x 1 TB SSD in RAID1 configuration for OS & VMS, 5 x 2TB SAS HDD for Additional Storage for Logs/Events snapshots, Dual Port 10G Server Adapter (loaded),Windows Server -2019/2022, (Video Management System for management & recording of 500 cameras with scalability up to 50%. Total Cameras(750 numbers) Integrated Command & Control Centre (ICCC) Platform for Centralized Dashbording, incident Management& Dashboard Viewing Licences and integration with CCTV, GPS-based Vehicle Tracking Systems (VTS), Fuel Management Systems (FMS) and other relevant technologies.). Platform, 2x 16-core/32-thread(32C,64T), 2.1 GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM,2x 1 TB SSD in RAID1 configuration for OS & VMS, 5 x 2TB SAS HDD for Additional Storage for</p>	2	NO S		0.00	0.00	0.00
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	<p>Logs/Events snapshots, Dual Port 10G Server Adapter (loaded), Windows Server -2019/2022, (Video Management System for management & recording of 500 cameras with scalability up to 50%. Total Cameras(750 numbers) Integrated Command & Control Centre (ICCC) Platform for Centralized Dashbording, incident Management& Dashboard Viewing Licences and integration with CCTV, GPS-based Vehicle Tracking Systems (VTS), Fuel Management Systems (FMS) and other relevant technologies.)</p>							
32	<p>SITC of Server with Failover Video Management Software &ICCC (N+1), 2x 16-core/32-thread(32C,64T), 2.1 GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM, 2x 1 TB SSD in RAID1 configuration for OS & VMS, 5 x 2TB SAS HDD for Additional Storage for Logs/Events snapshots, Dual Port 10G Server Adapter (loaded) [Failover Video Management and Video Recording System & ICCC (N+1)].</p>	1	NO S		0.00		0.00	0.00

33	<p>SITC of Server with AI and ML based Video Analytic Software, 2x24-core/48-thread(48C,96T), 2.6GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM, 2x 1 TB SSD in RAID1 configuration for OS & VMS, 2 x 2TB SSD HDD for Alerts/event and Incident snapshots, 4x Nvidia L4 (24 GB) or better,4x1G/10G Server Adapter (loaded) or more, Ubuntu-v20.04 OS (AI & ML based Video Analytics Software 474 analytics use-case for the following use-cases - ANPR: 98 numbers - Crowd Detection: 36 numbers - PPE Detection(Safety Helmet, Safety Jacket, Safety Kit, Black Safety SHoes):193 numbers - Smoke/Fire Detection: 62 numbers - Vehicle Classification: 37 numbers - Zone Intrusion: 48 numbers Offered Video Analytics Server has additional capability of scaling upto 50%. Total Analytics use case is 657numbers).</p>	5	NO S		0.00	0.00	0.00
34	SITC of NAS with 90 days storage capacity	1	NO S		0.00	0.00	0.00
35	SITC of 24 Port Fiber Switches with Modules.	2	NO S		0.00	0.00	0.00

36	SITC of SD-WAN Hub CPE Appliance in DC and DR with 24x7 support, bandwidth and subscription services as per specification (i)1 Gig SX SFP transceivers-8 nos. (ii)10 Gig SR SFP+ transceivers-4 nos. (iii)25 Gig or 40 Gig SR Transceivers-4 nos. (iv)suitable Centralized Analytics Appliance with 24x7 support with suitable Storage provision as per specifications (v)suitable Centralized Management / Orchestration / Controller Appliance with 24x7 support with suitable licenses.	6	NO S		0.00		0.00	0.00
37	SITC of 24 port layer 3 Manageable switch.	4	NO S		0.00		0.00	0.00
38	SITC of Server Smart racks 42U.	3	NO S		0.00		0.00	0.00
39	SITC of Interior for ICCC HQ, Neyveli	1	NO S		0.00		0.00	0.00
40	SITC of PA System centralized server cum accessories.	1	NO S		0.00		0.00	0.00
41	SITC of Base License Supports Licenses for Video Management Software & AI Based Video Analytics Software atI CCC HQ, Neyveli	1	NO S		0.00		0.00	0.00
42	VMS per Channel License - ICCC HQ, Neyveli	500	NO S		0.00		0.00	0.00
43	Failover VMS per Channel License - For ICCC HQ, Neyveli	500	NO S		0.00		0.00	0.00
44	Automatic Number Plate Recognition (ANPR) Analytical Software.	98	NO S		0.00		0.00	0.00

45	AI Based Video Analytics per channel License for Crowd Detection & Estimation for Crowd Management.	36	NO S		0.00		0.00	0.00
46	AI Based Video Analytics per Use-Case License for the Following Use-Cases PPE Detection (Safety Helmet, Jacket, Harness, Mask).	193	NO S		0.00		0.00	0.00
47	AI Based Video Analytics per channel License for Fire/Smoke Detection.	62	NO S		0.00		0.00	0.00
48	AI Based Video Analytics per channel License for Intrusion detection.	37	NO S		0.00		0.00	0.00
49	AI Based Video Analytics per channel License for Vehicle Classification	48	NO S		0.00		0.00	0.00
50	Central Dashboard for Health & Incident Management system	1	NO S		0.00		0.00	0.00
51	Integration plugin for following systems for below systems GPSbased Vehicle Tracking Systems (VTS), Fuel Management Systems(FMS)	1	NO S		0.00		0.00	0.00
52	SITC of 8*12 ft. LED WALL with 24 input controller & all accessories.	1	NO S		0.00		0.00	0.00
53	SITC of 20 KVA ONLINE UPS - four(4) hours backup with redundancy.	2	NO S		0.00		0.00	0.00
Total (SITC) (A)					0.00		0.00	0.00
Remark	1. The quantity mentioned for item no. (8)"(IP Based 4MP Box camera with IR 150Meter for ANPR VA)" is only for indication purpose. As per site requirement, the successful bidder shall supply the required quantity of item no. 8 (IP Based 4MP Box camera with IR 150Meter for ANPR VA) and the same shall be reduced from the total quantity of item number 9 (IP based 4MP 150mtr IR bullet camera).							

	2. The two types of RF modems and quantity shall be as per the Remark: site requirement.
	3. The bidders shall quote the CAMC charges for each year minimum @10% of Total bid value(excluding GST)
	4.SITC and CAMC Charges shall be inclusive charges for deployment of technical manpower.
	5 The total offered value (i.e) $C = A + B$ is to be entered by the bidder in the appropriate field. The value entered by the bidder alone will be considered for evaluation of the bid

Note: Prices in Financial Bid should be quoted in the provided format. All prices should be quoted in Indian Rupees only.

MSME UNDERTAKING

(Annexure – M)

(To be given on a Rs. 100/- Stamp Paper)

This Undertaking is made on this ___ day of _____, 2025, by: _____

M/s. [Name of Bidder], having its registered office at..... **[address]** (hereinafter referred to as the "**Bidder**", which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors, legal representatives, and permitted assigns);

IN FAVOUR OF:

Broadcast Engineering Consultants India Limited (BECIL), a distinguished Mini Ratna Public Sector Enterprise, having its Corporate Office at BECIL Bhawan, C-56, A/17, Sector-62, Noida - 201307(UP) (hereinafter referred to as the "**BECIL**", which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors, legal representatives, and permitted assigns).

WHEREAS:

1. The **Principal Employer/client**, have awarded the work for execution of the project to BECIL.
2. BECIL through this EOI intends to onboard on agency / agencies for Procurement and Installation of CCTV Cameras and Accessories.
3. As per the terms of the EOI, BECIL shall release payment to the selected Bidder/bidders only after receiving the payment from the Principal Employer/client.

NOW THEREFORE, the bidder hereby undertakes and agrees as follows:

1. The bidder acknowledges and confirms that the BECIL shall be liable to make payments only upon receipt of corresponding payments from the Principal Employer/client. Accordingly, the bidder shall not raise any claims, demands, interest, compensation, or initiate any legal proceedings against the BECIL for any delay in payment arising out of delayed release of funds by the Principal Employer/client.
2. The Bidder waives any rights under the Micro, Small and Medium Enterprises Development Act, 2006 (MSMED Act) or any similar legislation or regulation, to the extent such rights conflict with the agreed payment terms under the Subcontract Agreement. The bidder further waives its right to claim Interest on delayed payment by the BECIL, under the Micro, Small and Medium Enterprises Development Act, 2006 (MSMED Act) or any similar legislation or regulation for the time being in force in India.
3. This obligation shall survive the termination or expiry of the Contract signed with the successful bidder selected through this EOI process.

Signature & Stamp of Bidder

PRE-BID AGREEMENT

between

Broadcast Engineering Consultants India Ltd

(A Government of India Enterprise) C-56 / A-17, Sector- 62 Noida- 201307, U.P.

and

[vendor name]

[Vendor Address]

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WORK ARTICLE 4: ROLES AND RESPONSIBILITIES

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ARTICLE 6: PERIOD OF AGREEMENT

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COMMERCIAL ARTICLE 8: GENERAL

TERMS & CONDITIONS

SCHEDULE 1: DETAILED SCOPE OF WORK

PRE-BID AGREEMENT

This Pre-Bid Agreement is executed at Noida on this _____th day of _____ 2025 (“Effective Date”).
Between

Broadcast Engineering Consultants India Limited, a Mini Ratna Public Sector Enterprise of the Government of India having its Registered Office at 56-A/17, Block-C, Sector-62, Noida -201301 (U.P.) and Head Office at 14-B IP Estate Ring Road, New Delhi -110002 acting through **Binay Kumar Tiwari** (hereinafter referred to as "**BECIL or First Party**") which expression shall unless repugnant to the context or meaning thereof, include its successors, authorized representatives and permitted assigns.

AND

M/s **[Vendor full Name]**, registered under the Companies Act, 2013, having registered office at **[Vendor full Address]** acting through Mr. **[Vendor representative name]** (hereinafter referred to as "**[Vendor short name]**" or "**Second Party**") which expression shall unless repugnant to the context or meaning thereof, include its successors, authorized representatives and permitted assigns.

BECIL and **[vendor name]** are individually referred to as "**Party**" and collectively as "**Parties**".

ARTICLE 1: PREAMBLE

WHEREAS BECIL represents that it is an ISO 9001:2015, 27001:2013, ISO/IEC 20000:2012 certified, Mini Ratna, Central Public Sector Enterprise (CPSE) of Government of India, which was established on 24th March 1995. BECIL provides Project Consultancy services, Turnkey solutions, System integration, Operation & Maintenance for the entire gamut of radio and television broadcast engineering. BECIL has also diversified into the domain of businesses pertaining to Strategic National Importance and has won major Projects/ Tenders in the field of Security & Surveillance, IT Networking & Data Centre and Communication Intelligence, Third Party Audit of Optical Fiber Networks.

WHEREAS [vendor name] _____ intro _____.

WHEREAS [Client full name] (hereinafter called "**[client short name]**") has issued a tender vide tender no. _____ dated DD.MM.YYYY for **[clients Tender Name]** hereinafter referred to as "Tender"/"Work"/"Project" (hereinafter called as **Tender or [client short name] Tender or Primary Tender**)

WHEREAS BECIL published EOI No. _____ dated DD.MM.YYYY (hereinafter referred as "**BECIL's EOI**") for **[EOI title/name]**.

AND WHEREAS [vendor name] has been selected as back end partner through the BECIL's EOI process.

AND WHEREAS Parties have accepted to execute the contract if awarded by **[Client Name]** and shall abide by all terms and conditions of such contract signed thereof.

AND WHEREAS BECIL & [vendor name] have jointly accepted to collaborate to prepare and submit its competitive bid against the Tender for [Client Tender Name] floated by [Client Name] vide tender No. _____ dated DD.MM.YYYY.

AND WHEREAS, this Pre-bid agreement is executed solely for the purpose to bid for the tender issued by

[Client name] for [Client Tender Name] and may be superseded by an inter se agreement once the tender is awarded to BECIL.

AND WHEREAS the parties agreed to join its hand on following terms & conditions:

1.1 In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the agreement documents referred to.

1.2 The Parties wish to work together with the understanding that BECIL shall act as the bidder (sole bidder) and [vendor name] as Back end partners for participating in the [Client Name] tender.

1.3 The following documents shall be deemed to form and be read and construed as part of this Agreement–

1.3.1. Tender for [Client Tender Name] vide tender No. _____ dated DD.MM.YYYY.

1.3.2 BECIL's EOI No. _____ dated DD.MM.YYYY for [EOI name].

1.3.2 [vendor name]'s bid received against the BECIL's EOI.

ARTICLE 2: GENERAL

1.1. PURPOSE:

BECIL, as the sole bidder, shall participate in the bidding process in primary tender of [Client Name]. The other party shall function as a back-end partner to support BECIL in fulfilling its obligations under the bid.

The back-end partner hereby undertakes not to participate individually, directly or indirectly, or as part of any other consortium/ arrangement for said tender, either independently or through any of its associates.

2.2 Representation of the Parties: [vendor name] represents to BECIL that as on date of signing this Agreement:

2.2.1 [vendor name] is duly organized, validly existing and in good standing under the laws of its incorporation and has all requisite power and authority to enter into this Agreement.

2.2.2 That the execution, delivery and performance by [vendor name] of this Agreement has been authorized by all necessary and appropriate corporate or governmental action, and will not, to the best of its knowledge:

(a) Require any consent or approval not already obtained;

(b) Violate any Applicable Law presently in effect and having applicability _____ to it;

(c) Violate the Agreement and articles of association, by-laws or other applicable organizational documents thereof;

(d) Violate any clearance, permit, concession, grant, license or other governmental authorization, approval, judgment, order or decree or any mortgage contract, indenture or any other instrument to which [vendor name] is a party or by which [vendor name] or any of their properties or assets are bound or that is otherwise applicable to [vendor name];

(e) Create or impose any license, mortgages, pledges, claims, security interests, charges or Encumbrances or obligations to create a lien, charge, pledge, security interest, encumbrances or mortgage in or on the property of such Party, except for encumbrances that would not, individually or in the aggregate, have a material adverse effect on the financial condition or prospects or business of [vendor name] so as to prevent such Parties from fulfilling their obligations under this Agreement.

2.2.3. [vendor name] has not been black-listed by Central/ State Government or any other Government PSU and are not facing/ likely to face any disciplinary proceedings under Indian or under laws of any other country.

2.2.4. That this aforementioned TENDER is the legal and binding obligation of such Parties, enforceable in accordance with its terms against it;

2.2.5. That there is no litigation pending or, to the best of [vendor name] knowledge, threatened to which it or any of its affiliates is a party that presently affects or which would have a material adverse effect on the financial condition or prospects or business of such Party in the fulfillment of its obligations under this Agreement.

2.2.6. That there is no legal action/dispute initiated or pending on [vendor name] at the time of signing of this Agreement which is likely to concern or affect BECIL in any manner. If any such case is found pending, the agreement will automatically become invalid and the agency will be penalized by withholding the EMD/ PBG and legal action will be initiated as deemed fit by the competent authority. All ongoing and future business association with BECIL will also be terminated.

ARTICLE 3: PROJECT BACKGROUND AND SCOPE OF WORK

3.1 Project Background

From Client's Primary Tender

3.2 Scope of Work

The detailed scope of work for System Integrator has been given in the Schedule- I to this Agreement. For the detailed scope of work [vendor name] shall also refer to the primary tender document, its amendments in the form of corrigenda and subsequent contract signed between BECIL and [Client Name] in the event of award of tender.

ARTICLE 4: ROLES AND RESPONSIBILITIES

4.1 BECIL and [vendor name] hereby mutually agree that both of them shall remain as irrevocable members of this tie-up for the complete execution and completion of [Client Name] Tender/Work/Project (as per scope of aforementioned BECIL's EOI & [Client Name] tender).

4.2 DUTIES & OBLIGATIONS OF [vendor name]

4.2.1. [vendor name] will supply entire range of services for efficient completion of scope of works under the [Client Name] tender.

4.2.2. For the project to be undertaken, [vendor name] would formulate state-of-the-art, optimum and **General Standards of performance.** [vendor name] shall carry out the Services with due diligence and efficiency, and shall exercise such skill and care in the performance of the services as is consistent with recognized professional standards. [vendor name] shall act at all times so as to protect the interests of BECIL.

4.2.3. [vendor name] have read and understood the terms and conditions of the [Client Name] tender and it agree to support BECIL in abiding by those terms and conditions.

4.2.4. [vendor name] confirms that they understood on-ground technical complication and they agree to have taken into consideration the manpower required on the basis of the scope of work.

4.2.5. [vendor name] has understood the requirement in terms of ROW, Terrain and other clearances required to execute the project. They agree to manage these requirements at their own cost without any liability on BECIL in this regard.

4.2.6. [vendor name] have agreed to accept all the challenges with regard to Time Overrun, Cost Overrun, payment terms & Liquidated Damages & Penalties and confirm, to abide by the timeline in-case the project is awarded.

4.2.7. [vendor name] has agreed to accommodate the change in scope of work by [Client Name] whether or not incidental and ancillary, to achieve the objective as per the [Client Name] tender requirement, without any additional cost to BECIL.

4.2.8. [vendor name] have agreed to abide by all the terms on back to back basis as per the System Integrator duties and Obligations as specified in the [Client Name] tender.

4.2.9 [vendor name] shall be responsible for the detailed Scope of Work at Clause 3.2 and Schedule 1 of this agreement.

4.2.10 Since payment conditions are on back to back basis and time is the essence of the project; [vendor name] should maintain sufficient liquidity/funds for timely and smooth execution of the project.

4.3. DUTIES AND OBLIGATIONS OF BECIL

4.3.1. BECIL shall act as coordinator/ Project Management Consultant. Providing timely feedbacks and correspondences with the [Client Name] on the various stages of project deliverables.

4.3.2. To ensure the technical, commercial and administrative coordination of the project.

4.3.3. To lead the contract negotiations of the project with the [Client Name] authority.

4.3.4. In the event of project getting awarded, BECIL shall act as the only channel of communication

between the [Client Name] authority and [vendor name] to execute the project/ Agreement.

4.4. RESPONSIBILITY MATRIX

In addition to the aforementioned duties and obligations of the parties, the Agreement will cover the following scope to be undertaken by Parties as mentioned in the Responsibility Matrix given below.

P-Primary Responsibility

S-Secondary

Responsibility J- Joint

Responsibility

N- No Responsibility

S.NO.	Description	BECIL	[vendor name]
	PRE-BID RESPONSIBILITY		
1.	Pre-bidding site survey, if any	S	P
2.	Fully complied technical bid response preparation as per tender Terms & Conditions.	J	J
3.	Competitive commercial bid preparation as per tender	J	J
4.	Documentation and correspondence with the customer.	P	N
5.	Provisioning of EMD/ Bid Security as per tender requirement.	P	S
6.	Provision of Back to Back EMD except by MSE as per GoI guidelines.	N	P
7.	Provisioning of any other required document for bidding.	J	J
8.	Submission of complete techno-commercial offer to the customer in requisite mode.	J	J
9.	Any Presentation if required during the tender evaluation.	S	P
10.	Any other relevant follow up, correspondence and meetings with customer.	P	S
	POST-BID RESPONSIBILITY (In the event of winning the contract)		
1.	Signing of contract with the [Client Name]	P	N

2.	Submission of PBG to [Client Name]	J	J
3.	Submission of back to back PBG to BECIL	N	P
4.	Any relevant follow up, correspondence and meeting with the customer	P	S
5.	Executing the entire Scope of Work to the satisfaction of the [Client Name].	S	P
6.	Providing project finance/working capital for timely execution of the project.	N	P

4.5 COVENANTS: The Parties hereby undertake that in the event the BECIL is declared the selected Bidder and awarded the project, BECIL shall enter into an Agreement with [Client Name] for performing all the obligations as **System Integrator**.

ARTICLE 5: COOPERATION OF THE TRANSACTION

5.1 The parties agree to abide by the broad Responsibility Matrix mentioned above and forms an integral part of this Agreement including all the tender terms such as General Requirements, Technical Parameters, Commercial Aspects, Evaluation and Acceptance criteria of the tender, Guarantee/ Warranty terms etc.

5.2 Expenses towards preparation of proposal, submission of bid and other allied activities for submission of bid will be undertaken by the respective parties at their own cost.

5.3 The cooperation for execution of the Project between the parties hereto shall be exclusive, i.e., neither of them shall without the other party's consent - alone or together with another PARTY take part in any agreement or proposal with regard to this tender.

ARTICLE 6: PERIOD OF AGREEMENT

6.1 The term of this agreement shall be for Months ("Term") from the date of signing of this agreement ("Effective Date") or till the completion of the project & release of all payments thereof whichever is later. All obligations hereunder shall only apply during the Term of this agreement and to such obligations and commitments in relation to the Tender/Work/Project under the scope of BECIL's EOI & [Client Name] tender, as may have been undertaken by the Parties during the Term with validity exceeding the Term. The Term of this agreement can be extended by mutual agreement between the Parties, depending upon the requirement

NB- Completion shall mean certificate of Completion issued by BECIL.

ARTICLE 7: PAYMENT AND COMMERCIAL

7.1 BECIL will Provision the EMD to [Client Name] as per the Primary tender requirement.

7.2 [vendor name] will provision for Back to Back EMD of equal amount to BECIL, except in case the [vendor name] is MSME and are exempted from paying EMD as per GOI guidelines.

- 7.3.** BECIL shall furnish Performance Security in the form of PBG as per the terms and conditions of primary tender.
- 7.4** [vendor name] will furnish back to back performance Security in the form of PBGs to BECIL as per the terms & conditions of the primary tender. The PBG shall remain valid up to 60 days beyond the date of expiry/date of claim of the PBG submitted by BECIL to [Client Name] .
- 7.5.** [vendor name] will raise its invoices to BECIL based on milestone completion. BECIL will then raise the invoices to [Client Name] (as per relevant clause of primary tender) after getting the relevant documentary proofs of successful completion of the said milestones from [vendor name].
- 7.6** BECIL shall be entitled to keep__% of the project value (of bid value including taxes submitted by BECIL to [Client Name]) as its project management consultancy.
- 7.7** Upon receipt of corresponding payment from the [Client Name] , BECIL shall disburse the payment to [vendor name] within 15 days of receipt of the payment from [Client Name] after deduction of BECIL project management consultancy as per clause 7.6 and expenses as per clause 7.9 and BG making charges, if any.
- 7.8** All Invoices received from [vendor name] would be inclusive of all statutory taxes/ GST. BECIL will consider invoices raised by [vendor name] to submission of all relevant documents and in case the documents are not proper, BECIL is liable to reject the invoices.
- 7.9** In case BECIL is required to open the offices, the office rent (including the maintenance & electricity charges as applicable) shall be recovered by BECIL from [vendor name]. Also, the Salaries paid to the manpower deployed on the payroll of BECIL, specifically employed for this project shall be recovered from [vendor name].
- 7.10** Salaries paid to the manpower deployed on the payroll of BECIL and Office rent paid for this project as per clause 7.9 above, shall be recovered by BECIL from the stage-wise Milestone payments payable to [vendor name].
- 7.11** Notwithstanding anything contained in any other agreement, document, correspondence, arrangement between the parties in respect of [Client Name] Tender/ Works / Projects, [vendor name] understands, agrees and undertakes that:
- 7.11.1** [vendor name] participated in BECIL's EOI and that all terms & conditions of the BECIL's EOI shall apply to [vendor name].
- 7.11.2** The payments terms between BECIL & [vendor name] are on back-to-back basis and the payment shall be released by BECIL only if and when received by BECIL from [Client Name] and subject to terms & conditions of agreement and submission of complete required documents.
- 7.11.3** [vendor name] will not demand or make any claim under any law with respect to the pending payment till the time corresponding payment is received by BECIL from [Client Name] . BECIL shall not be responsible in any manner whatsoever for any delay in releasing the payments or withholding of payments by [Client Name] .
- 7.11.4** The (day) date of delivery of goods and/or rendering of services by [vendor name] shall be the date or realization of payment from the [Client Name] once the goods and/or services are accepted by

[Client Name].

7.11.5 The stage wise invoices raised by [vendor name] maybe accepted by BECIL, however, the date of completion of the milestone / delivery of goods or services shall only be recognised for invoice and its payment when the respective acceptance of goods or services and payment thereof is received from [Client Name].

7.11.6 If in the instant contract, [vendor name] is acting only as trader / reseller / distributor/ authorized agents and/ or is engaged in a WORKS contract, no benefits under MSME Act 2006 and PPP Policy 2012 as per MSE Guidelines issued by Ministry of MSME would be applicable to it on account of acceptance of back to back payment terms as above. By agreeing to the terms of [Client Name] Tender, the [vendor name] agrees to forgo its rights under this Act and Policy.

7.11.7 [vendor name] hereby agrees to ensure timely GST compliances as per the statutory requirements. All the costs pertaining to any GST non-compliance including but not limited to any loss of eligible input tax credit due to non-payment/non-filing of GST return and applicable interest/penalties shall be borne/indemnified by [vendor name]. Further [vendor name] hereby agrees that BECIL reserves the right for reimbursement of any such cost incurred out of the aforesaid noncompliance(s). [vendor name] will provide proof of payment of GST i.e. GSTR-1, GSTR-3B, etc. for taking GST payment from BECIL against invoices.

7.12 Any sum of money due and payable to [vendor name], under this contract for [Client Name] tender entered between the parties herein whether continuing or completed may be appropriated by BECIL and set off against any claim of BECIL of any nature whatsoever, arising under this contract or any other contract entered into between the parties, herein whether continuing or complete.

7.13 There is also expenses towards Office establishments/ Purchase of fixed assets (with mutual consent) in the project. All such expenditure must be treated as direct expenditure and will be borne by directly [vendor name].

7.14. Payments shall be released to [vendor name] only on satisfactory acceptance of the deliverables by [Client Name] for each task and release of payment by [Client Name] as per the schedule given at clause _____ primary tender of [Client Name] and Corrigendum issued thereof.

ARTICLE 8: GENERAL TERMS & CONDITIONS

8.1 AGENCY

This Agreement between the parties is on a principal to principal basis and it is agreed that [vendor name] is not and shall not represent itself as an agent of BECIL.

8.2 CONFIDENTIALITY AND NON-DISCLOSURE

8.2.1 The [vendor name]. recognizes, accepts and agrees that disclosure of Confidential information to the Staff shall be only on a need-to-know basis and only those staff who are involved in rendering the services and need to have access would alone be informed of Confidential information.

8.2.2 The [vendor name]. recognizes, accepts and agrees that all tangible and intangible information obtained or disclosed to the Bidder's and/or its staff, including all details,

documents, data, business/ customer information and the BECIL 's practices and trade secrets (all of which are hereinafter collectively referred to as "confidential information") which may be communicated to the [vendor name]. 's and/or its facility staff may be privy under or pursuant to this Contract and/or in the course of performance of the [vendor name]. 's obligations under this Contract shall be treated, as absolutely confidential and the [vendor name]. irrevocably agrees and undertakes and ensures that all its facility staff shall keep the same as secret and confidential and shall not disclose the same at all in whole or part to any Person or persons (including legal entities) an any time or use nor shall allow information to be used for any purpose other than that as may be necessary for the due performance of the [vendor name] obligations hereunder except when required to disclose under the due process and authority of law.

8.4. INTELLECTUAL PROPERTY RIGHTS

8.4.1. Deliverable, outputs, plans, drawings, specifications, designs, reports and other documents and software submitted by the Bidders under this EOI and subsequent to this EOI in relation with this tender shall become and remain the property of BECIL/procuring entity and subject to laws of copyright, must not be shared with third parties or reproduced, whether in whole or part, without BECIL's/ the procuring entity's prior written consent.

8.4.2 The [vendor name] shall, not later than upon termination or expiration of this Contract and/or subsequent Agreement/Contract signed with the [vendor name] , deliver all such documents and software to BECIL/the procuring entity, together with a detailed inventory thereof.

8.4.3 The [vendor name] shall not incorporate any materials, technology or any item or thing that involves the use of intellectual property rights or proprietary rights that the [vendor name] does not have the right to use or that may result in claims or suits against BECIL arising out of claims of infringement of any intellectual property rights or other proprietary rights.

8.4.4 The [vendor name] shall perform all acts necessary to obtain and continue to have all necessary licenses, approvals, consents of third parties free from any encumbrances and all necessary technology, hardware and software to enable it to perform its obligations under this Contract . If license agreements are necessary or appropriate between the [vendor name] and third parties for purposes of enabling, enforcing or implementing the provisions hereinabove, the Bidder shall be under an obligation to enter into such agreements at its own sole cost, expense and risk.

8.5 RISK & COST CLAUSE

8.1 In case of persistent breach/default of the terms and conditions of the Contract and due to abnormal delay (beyond the maximum late delivery in the Liquidated damages clause) in supplies, defective supplies or non-fulfilment of any of the terms and conditions of the RFP and the Work Order, BECIL may cancel the contract/Work Order in full or part thereof, and will procure supplies/equipment's or ensure the execution of work or any pending service in case of service contract from other willing vendor at the risk and cost of the Bidder/Agency.

8.2 Risk & Cost Clause, in line with Conditions of Contract may be invoked in any of the following cases:

8.2.1 Agency/ Bidder's poor progress of the work vis-à-vis execution timeline as stipulated in

the Contract, backlog attributable to Agency including unexecuted portion of work/ supply does not appear to be executable within balance available period.

8.2.2 Withdrawal from or abandonment of the work by Agency/Bidder before completion of the work as per contract.

8.2.3 Non completion of work/ Non-supply by the Agency/ Bidder within scheduled completion/delivery period as per RFP or as extended from time to time, for the reason attributable to the Agency/ Bidder.

8.2.4 Termination of Contract on account of any other reason (s) attributable to Agency/ Bidder.

8.2.5 Assignment, transfer, subletting of Contract by the Agency/Bidder without BECIL's written permission resulting in termination of Contract or part thereof by BECIL.

8.6 Extension of time

8.6.1 It is hereby agreed that BECIL shall by mutual agreement update and extend the timeline/ milestone for the completion of work after discussion with the Client and its officials.

8.6.2 Any period within which [Vendor name] is unable to complete the work or perform its obligations due to persistence of force majeure event, shall be extended for a period equal to the time during which the [Vendor name] was unable to perform such action.

8.6.3 Any extension of time agreed upon mutually shall be documented in writing and signed by both the parties to be affected.

8.7 LIQUIDATED DAMAGES

If the [Vendor name] fails to achieve the completion of the work in accordance with the scheduled completion date as given in the RFP or the subsequent Work Order issued thereto, BECIL may without prejudice to any other right or remedy available to it as under the Contract or Law:

8.7.1 Any liquidated damages imposed on BECIL by the Client, BECIL shall pass on the entire quantum of liquidated damages to the bidder/ selected agency on back-to-back basis.

8.7.2 The amount towards Liquidated Damages shall become leviable from the scheduled completion date or from the expiry of the extension, if any, given by BECIL without the levy of Liquidated damages.

8.7.3 BECIL may without prejudice to its right to effect recovery by any other method, deduct the amount of Liquidated Damages from any money belonging to the Bidder which has become due or payable (which shall also include BECIL's right to claim such amount against Bidder's Bank Guarantee)

8.7.4 Any such recovery of Liquidated Damages shall not in any way relieve the Bidder from any of its obligations to complete the works or from any other of its other obligation and liabilities under the

Contract.

8.8 Undue Influence

8.8.1 The [Vendor name] undertakes that it has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the BECIL or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract or any other Contract with the Government of India for showing or forbearing to show favor or disfavor to any person in relation to the present Contract or any other Contract with the Government of India.

8.8.2 Any breach of the aforesaid undertaking by the [Vendor name] or any one employed by it or acting on its behalf (whether with or without the knowledge of the Agency) or the commission of any offers by the Agency or anyone employed by him or acting on his behalf, as defined in the Bharatiya Nyaya Sanhita, erstwhile known as the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle BECIL to cancel the contract and all or any other contracts with the [Vendor name] and recover from the [Vendor name] the amount of any loss arising from such cancellation.

8.9 Unethical Practice

8.9.1 If the [Vendor name] has engaged in corrupt, fraudulent, collusive and coercive practices or defaulted commitments under integrity.

8.9.2 Any intentional omission or misrepresentation in the documents submitted by the [Vendor name] for the purpose of due diligence or for the execution of any act essential for the execution of the Project.

8.9.3 If the [Vendor name] uses intimidation / threats or bring undue outside pressure on BECIL or any of its official for acceptance / performances of the deliverable/qualified work under the contract:

8.10 Penalty for Unethical Practice and Undue Influence

8.10.1 Forfeiture of Bank guarantee or any other bond or bid security submitted by the [Vendor name] Cancellation/ termination of the Contract with the liberty to recover the accrued losses/damages from the pending bills raised by the Bidder against the delivery of material and execution of work.

8.10.2 Initiation of arbitration /legal proceedings to recover losses or damages incurred by BECIL due to the violation of ethical practice or use of undue influence by the [Vendor name].

8.11 PENALTIES

8.11.1 In the event of any penalties, deductions, disincentives, or charges levied by the [Client Name] due to poor or substandard quality of work, non-compliance with service standards, or any deficiencies related to the assigned scope of work, the same will be recovered from the bills submitted by the System Integrator.

8.11.2 The System Integrator shall bear the full financial responsibility for such penalties or deductions imposed on BECIL by [Client Name] and will not be entitled to claim any reimbursement or adjustment for the same.

8.12 TERMINATION

8.12.1 Termination of Contract by BECIL due to unsatisfactory performance

8.12.1.1 If the [Vendor name] refuses or fails to execute the specified quantum of work or any separate part thereof with diligence or ensure its completion within the time specified in the RFP, or subsequent work order issued thereto, then it shall be open to BECIL at its option by written notice to the [Vendor name] to-:

8.12.1.2 To terminate the contract without prejudice to any other remedy available under the Contract. That a notice of cure, highlighting the deficiency or problem shall be served on the [Vendor name] by BECIL, with an opportunity to cure the same within a window period of 15 days. That on the non-resolution of deficiency, a notice of termination shall be served on the [Vendor name] and the Contract shall be deemed terminated after a period of 15 days from the date of notice of termination.

8.12.1.3 That the contract shall stand terminated and shall cease to be in force and in effect after a fifteen day period from the date of the notice of termination. The [Vendor name] in consequence of the above, shall stop forthwith any of its work then in progress, except such work as BECIL may, in writing, require to be executed at the designated site/premises.

8.12.1.4 That the whole or part of the performance security furnished by the [Vendor name] is liable to be forfeited without prejudice to the right of BECIL to recover from the [Vendor name] any accruing or incurred losses or damages, on account of termination of contract due to unsatisfactory performance/ delay in execution of work.

8.12.2 Termination due to breach

8.12.2.1 BECIL may, without prejudice to any other remedy available for the breach of contract, may terminate the contract in sub-sequence to non –resolution of deficiency after the service of a notice of cure with a window period of fifteen days. After the end of the cure period, a 15 (fifteen) days' notice shall be served on the [Vendor name], and the contracts shall be deemed terminated after the end of the period of fifteen days from the date of notice of termination.

8.12.2.2 The following sub-clauses shall attract the provision of termination, in the event if -:

- a. If the [Vendor name] has abandoned or repudiated the Contract;
- b. If the [Vendor name] has without valid reason failed to commence work on the project promptly;
- c. If the [Vendor name] has persistently failed to execute the works/express deliverable in accordance with the Contract or persistently neglects to carry out its obligations under the Contract without just cause;
- d. If the [Vendor name] defaults in proceeding with the works/job with due diligence and continues to do so after a notice in writing of fifteen (15) days from BECIL; If the [Vendor name] has obtained the contract as a result of undue influence or has adopted unethical means/corrupt practices.

e. if the information submitted/furnished by the [Vendor name] is found to be incorrect;

8.12.2.3 That any pending bills/ invoices raised by the [Vendor name], prior to or post the termination of the contract on account of its breach of terms and conditions shall be put on hold for a period of six weeks, and any amount deducted by the Client against the bills raised by BECIL shall be consequently deducted from the bills raised by the [Vendor name], respectively.

8.12.3 Termination due to Insolvency

8.12.3.1 If the [Vendor name] dissolves or become bankrupt or insolvent or cause or suffer any receiver to be appointed for its business of any assets thereof compound with his Creditors, or being a corporation commence to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its business under a Receiver for the benefits of its Creditors any of them, then BECIL shall be at liberty :-

8.12.3.2 To terminate the contract forthwith upon coming to know of the happening of any such event as aforesaid by a fifteen day notice in writing to the [Vendor name] or to give the Receiver or liquidator or other person, the option of carrying out the contract subject to its providing a guarantee upto an amount to be agreed upon by BECIL for due and faithful performance of the contract.

8.12.4 Termination for Convenience

BECIL can terminate the Agreement by serving a 30 day notice without assigning any cause or reason on the part of [Vendor name]. The contract shall be deemed terminated after a period of 30 days from the date of termination notice.

8.13 Post Termination Responsibility :

8.13.1 In all cases of termination herein set forth, the obligations of BECIL to pay shall be limited to the period upto the date of termination, subject to the receipt of such payment from the Client.

8.13.2 That any pending bills raised by the [Vendor name], prior to or post the termination of the Contract on account of the breach of the terms and conditions of the contract, shall be put on hold, till the time, the corresponding payment is received from the Client and any amount deducted by the Client against the bills raised by BECIL shall be consequently deducted from the bills raised by the Bidder respectively.

8.13.3 The [Vendor name] shall forthwith stop any of its work then in progress, except such work as BECIL may, in writing, require to be executed at the designated site/premises.

8.13.3.1 That in the event of termination under clause 8.12.1 and 8.12.2 the whole or part of the performance security furnished by the [Vendor name] is liable to be forfeited without prejudice to the right of BECIL to recover from the [Vendor name] any accruing or incurred losses or damages, on account of termination of contract due to unsatisfactory performance/ delay in execution of work

8.14 TAXES

8.14.1 [vendor name] shall bear all taxes and duties etc. levied or imposed on them under the Agreement including but not limited to, Customs duty, Excise duty, GST, any other taxes and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof during the entire Agreement period.

8.14.2 Should [vendor name] fail to submit returns/ pay taxes in times as stipulated under applicable Indian/ State Tax Laws and consequently any interest or penalty is imposed by the concerned authority, [vendor name] shall pay the same. [vendor name] shall indemnify BECIL against any and all liabilities or claims arising out of this Agreement for [Client Name] tender for such taxes including interest and penalty by any such Tax Authority may assess or levy against the BECIL.

8.15 Indemnity

8.15.1 The Bidder shall indemnify, save, hold harmless and defend BECIL and its officers, servants, employees and agents promptly upon demand and at its expense, from and against any and all suits, proceedings, actions, demands, losses, claims, damages, liabilities, costs (including reasonable attorney's fees and disbursements) and expenses (collectively, "Losses") to which BECIL may become subject, insofar as such losses arise out of, in any way relate to, arise or result from:

- a) Any Compensation/ claim or proceeding by any third party against BECIL arising out of any act, deed or omission by the [vendor name] ;
- b) Any breach by the [vendor name] of any of its obligations under this Contract or from any negligence under the Contract, including any errors or deficiencies in the performance its scope of work.

8.15.2 That BECIL shall have no liability whatsoever for any injury/death to the staff of [vendor name] caused or suffered during the performance of it's obligations hereunder

8.16 ASSIGNMENT AND SUB-CONTRACTING

8.16.1 Neither this agreement nor any of the rights and obligations under it can be assigned by any party. Parties may engage sub-contractors by mutual consent.

8.16.2 [vendor name] shall not participate directly or indirectly whether in consortium or separately in [Client Name] Tender and shall not quote rates to any other party participating/pre-qualified for the current [Client Name] Tender directly or indirectly through its subsidiary, partnership, ownership, individual firm etc.

8.17 FORCE MAJEURE

8.17.1 For the purpose of this Contract, the term “Force Majeure” shall mean an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable and not brought about by or at the instance of the Party claiming to be affected by such events and which has caused the non-performance or delay in performance ,and which makes a Party’s performance of its obligations hereunder impossible or impractical as reasonable to be considered impossible in the circumstance, inclusive of but not limited to war, riots, civil disorder, earthquake, fire, strikes, lockouts or other industrial action (except where such strikes lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent) , confiscation or nay other action by the Government Agencies.

8.17.2 Force Majeure shall not include (i) any event which is the caused by the negligence or intentional action of a Party or by of such Party ‘s agents or employees , nor(ii) any event which a diligent party could reasonably have been expected both to take into account at the time of the acceptance of the work order under this RFP, and avoid or overcome with persistent effort in carrying out its respective obligations.

8.17.3 In the case of failure to perform this Agreement due to any force majeure, neither party shall be liable for such failure, and this Agreement shall be terminated automatically, if the persistence of such force majeure event continues for more than three months. In the case of failure to perform any part of this Agreement due to any force majeure, the party suffering from such force majeure may be exempted from corresponding liability to the extent of the impact of such force majeure. However, such party shall continue to perform other obligations under this Agreement which have not been affected by such force majeure.

8.18 GOVERNING LAW AND JURISDICTION

8.18.1 This agreement is governed by the laws of India and each Party irrevocably and unconditionally submits to the exclusive jurisdiction of the Courts at New Delhi, India.

8.18.2 Where the [vendor name] has not agreed to dispute resolution, the dispute/ claims arising out of the tender and this agreement shall be subject to the jurisdiction of the competent courts at New Delhi, India.

8.19 ARBITRATION CLAUSE

8.19.1 Conciliation of Dispute

8.19.1.1 Any dispute(s) /difference(s)/issue(s) of any kind whatsoever between/amongst the Parties arising under/out of/in connection with this contract shall be settled mutually and amicably between the Parties, within a time span of thirty days from the date of invocation of dispute vide a written notice by the Aggrieved party. The Aggrieved Party shall notify the other party in writing about such dispute(s)/difference(s)/issue(s) between/amongst the Parties and that such a Party wishes to refer the dispute(s)/ difference(s)/issue(s) to Conciliation. Such Notice/Invitation for Conciliation shall contain sufficient information as to the dispute(s)/ difference(s)/issue(s) to enable the other Party to be fully informed as to the nature of the dispute(s)/ difference(s)/issue(s), as well as the amount of monetary claim. That in the event of reference of dispute for Conciliation, a committee comprising of two members, nominated by each party i.e. the [VENDOR NAME] and Becil respectively shall try to amicably resolve/settle the dispute.

8.19.2 Reference of Dispute to Arbitration

8.19.2.1 In the event of failure in mutual resolution of the issue, any dispute(s)/ controversy(s)/ issue(s) arising out of or in connection with the contract, including any question regarding its existence or validity shall be referred to and finally resolved by Arbitration administered by the Delhi International Arbitration Centre as per the Delhi International Arbitration Centre proceeding Rules 2023.

8.19.2.2 The Aggrieved party wishing to refer a dispute to Arbitration shall give a notice to the Defaulting Party specifying all the points of dispute(s) with details of corresponding the claim amount.

8.19.2.3 The Arbitration Proceeding shall commence within a span of thirty days from the date of receipt of Invocation Notice complete in all respects as mentioned above,

8.19.2.4 The dispute(s)/ difference(s)/controversy(s) shall be adjudicated by a single/sole Arbitrator empanelled with the Delhi International Arbitration Centre.

8.19.2.5 The seat of Arbitrations shall be at New Delhi and the Arbitration proceeding shall be conducted in English.

8.19.2.6 The award of Sole Arbitrator shall be final and binding on the parties and unless directed/awarded otherwise by the Sole Arbitrator, the cost of arbitration proceedings shall be shared equally by both the parties.

8.19.2.7 The provision of the Arbitration and Conciliation Act, 1996 as amended and applicable from time to time shall apply to the Arbitration proceedings under this Contract.

8.19.2.8 That any claim of damage(s) or losse(s) incurred by BECIL as a consequence of the invocation of the litigation/arbitration proceeding owing to the suspension or abandonment of work by the [vendor name] shall be reimbursed by [vendor name]

8.19.4.2 In the event of initiation of AMRCD proceedings between BECIL and the client, the decision / mutual settlement arrived at, on the conclusion of the proceeding between the parties, shall in turn become applicable on [vendor name]

8.21 RIGHT TO INSPECTION

8.21.1 That BECIL and its field officers or its Auditors, shall have the right to carry out inspection checks and tests, and do audit of the Bidder's premises, personnel and records relating to the project in order to ensure there is no compromise on the quality of goods/services provided by the Bidder to the BECIL and its Client. The BECIL has a right to review and monitor the security practices and control procedures adopted by the Bidder. The Bidder shall produce and make available all such books, records, information, etc., related to project work for the purpose of Inspection/ audit as sand when required.

8.21.2 That BECIL shall have the right to review and monitor the performance of the Bidders on a continuous basis system integrator shall furnish necessary particulars, statements, etc., as desired by the BECIL in a periodical manner for the purpose of assessment of their performance.

8.22 NOTICES

8.22.1 Any notice, invoice, approval, advice, report or notification in connection with this Contract shall be in writing and any notice or other written communication pursuant hereto shall be signed by the party issuing the same and shall be addressed to the BECIL or the System Integrator and may be given by delivering the same by hand or sending the same by prepaid registered mail, official e-mail or facsimile to the relevant address forth below or such other address as each Party may notify in writing to the other Party from time to time. Any such notice given as aforesaid shall be deemed to be served or received at the time upon delivery (if delivered by hand) or upon actual receipt (if given official e-mail or facsimile) or Fifteen (15) clear days after posting (if sent by post).

(a) Any notice or other document which may be given by either Party under the Contract/ Agreement shall be given in writing in person or by pre-paid recorded delivery post, email.

(b) In relation to a notice given under the Contract/ Agreement, any such notice or other document shall be addressed to the other Party's principal or registered office address as set out below:

<p>Name: Mr. Binay Kumar Tiwari Designation: Dy. General Manager Address: Broadcast Engineering s India Ltd, C-56/ -17, Sector- 62, Noida- 201307, U.P. Email: binaytiwari@becil.com</p>	<p>Name: Mr. [vendor representative name] Designation: _____ Address: [Vendor Address] Email: [Vendor Email]</p>
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8.22.2 In relation to a notice given under the Contract/ Agreement, a Party shall specify the Parties address for service of notices, any such notice to be copied to the Parties at the addresses set out in this tender.

8.22.3 Any such notice or other document shall be deemed to have been given to the other Party (or, if relevant, its relevant associated company) if delivered between the business hours of 9.00 am and 5.30 pm at the address of the other Party set forth above, or on the next working day thereafter if delivered outside such hours, and 7 days from the date of posting (if by letter).

8.22.4 Either Party to the Contract may change its address, telephone number, and nominated contact for notification purposes by giving the other Party reasonable prior written notice of the new information and its effective date.

8.24 No Waiver

No failure on the part of the either party hereto to exercise, and no delay on its part in exercising, any right or remedy under this Contract will operate as a waiver thereof nor will any single or partial exercise of any right or remedy preclude any other or further exercise thereof or the exercise of any other right or remedy and the same shall not affect in any manner the effectiveness of any of the provisions of this Contract.

8.25 SURVIVAL

8.25.1 The Rights and obligations under this Agreement that by their nature should survive and will remain in effect after termination or expiration of this Agreement.

8.25.2 Each indemnity and guarantee arising in respect of this agreement survives the performance of obligations arising out of or under this agreement and the termination of this agreement and will continue in

force as long as necessary to affect their purpose.

8.26 AMENDMENT

Unless otherwise stated expressly, this Contract shall be modified only by an instrument in writing duly executed by both the parties.

8.27 SEVERABILITY

If any provision of this agreement is held invalid by any law or regulation of any government or by any court or arbitrator, that invalidity will not affect the enforceability of any other provision.

8.28 DAMAGES

Once the Bid has been submitted for primary tender of [Client Name], [vendor name] cannot withdraw from the Agreement. Any damage/ loss caused to BECIL due to failure on the part of the [vendor name] to enter into a detailed agreement with [Client Name] shall be borne by the [vendor name] and will be made good by the [vendor name] in case BECIL has to make payment of any damages/penalty to [Client Name].

8.29 LIMITATION OF LIABILITY:

With the exception of any breach of confidentiality obligations, neither party will be liable to the other party for any costs, damages, expenditure, loss of profits, prospective profits of any kind or nature etc. arising from the termination or alleged breach of this agreement or in any manner arising from this agreement.

8.30 By signing this Agreement, BECIL, and [vendor name] acknowledge that it correctly records the understanding they have reached with regard to the Project.

8.31 [vendor name] shall be liable to BECIL to compensate any losses or damages if so suffered by BECIL for any breach of this agreement and/ or action initiated by the [Client Name] for non-performance of the contract.

8.32 Nothing in this agreement shall constitute, create or give effect or recognize a , partnership or business entity of any kind.

8.33 On award of the work of the [Client Name] tender to BECIL, BECIL may enter into a detailed Inter-se Agreement with [vendor name] based on the terms and Conditions of the agreement, BECIL EOI, [Client Name] tender as well as the Contract signed between BECIL & [Client Name] .

8.34 After mutual consultation, a joint team consisting of representatives of the parties will be formed for various activities like, technical discussions, deciding the preparation of final Bid/ offer, terms & conditions and demonstration of functionality required in the [Client Name] Tender/Work/Project.

8.35 Expenses towards bid preparation would be borne by the individual Parties viz. BECIL and [vendor name] for their respective work. BECIL will not reimburse any such expenses to [vendor name] towards preparation and submission of the bid.

8.36 Notwithstanding anything contained in any other agreement, document, correspondence, arrangement between the parties in respect of [Client Name] Tender/ Works / Projects, the [vendor name] understands, agrees and undertakes that:

8.36.1 At any given point of time, [vendor name] may not assign or delegate its rights, duties or obligations under this agreement to any other party, without prior written consent of BECIL.

8.36.2 In the event of breach of any of the terms & conditions of this agreement or in case of any default of any terms & conditions of this agreement, on the part of [vendor name], BECIL reserves the right to take necessary steps / action as per available documents, including but not limited to, termination of contract, forfeiture of Performance Security / EMD, blacklisting / banning etc. and execute the work at the risk & cost of the [vendor name].

8.37 BLACKLISTING/ DEBARMENT

[vendor name] shall be debarred/blacklisted from bidding for the contract/tender/EOI floated by BECIL for a period of two years, for violation of the code of integrity, Conflict of Interest as well as for the material breach of terms and conditions of the tender as per the General Financial Rules 2017 and the Guidelines for debarment of firms from bidding issued by the Department of Expenditure, Ministry of Finance no. F1/20/2018 –PPD dated 02.11.2021.

8.38 MSME

8.38.1 The Subcontractor acknowledges and confirms that the Main Contractor shall be liable to make payments only upon receipt of corresponding payments from the Principal Employer/client. Accordingly, the Subcontractor shall not raise any claims, demands, interest, compensation, or initiate any legal proceedings against the Main Contractor for any delay in payment arising out of delayed release of funds by the Principal Employer/client.

8.38.2 The Subcontractor waives any rights under the Micro, Small and Medium Enterprises Development Act, 2006 (MSMED Act) or any similar legislation or regulation, to the extent such rights conflict with the agreed payment terms under the Subcontract Agreement. The Subcontractor further waives its right to claim Interest on delayed payment by the Main Contractor, under the Micro, Small and Medium Enterprises Development Act, 2006 (MSMED Act) or any similar legislation or regulation for the time being in force in India.

8.39 COUNTERPARTS

This agreement is executed in two counterparts, with each party retaining one original.

8.40 ENTIRE AGREEMENT

This agreement hereto constitutes the entire agreement between the Parties with regard to the subject matter contained in this agreement and supersedes all prior negotiations, representations, agreement and understandings, written or oral preceding the execution of this agreement.

IN WITNESS WHEREOF, the parties hereto, intending to be legally bound, have executed this Pre-Bid Agreement as of the date first above mentioned.

This Agreement has been signed on behalf of the parties by their respective duly authorized representatives as of the Effective Date.

On Behalf of BECIL	On Behalf of [vendor name]
<p>(Binay Kumar Tiwari) Dy General Manager</p>	<p>(vendor representative) title</p>
<p>Signature of Witness:</p> <p>Name:</p> <p>Title:</p>	<p>Signature of Witness:</p> <p>Name:</p> <p>Title:</p>

SCHEDULE 1: DETAILED SCOPE OF WORK

[from client primary tender]



OFFICE OF THE EXECUTIVE DIRECTOR/MINES
NLC INDIA LIMITED
(‘Navratna’- Govt. of India Enterprise)
Administrative Office/Mine-I&IA, Block-26, Neyveli-607803
Mines Contracts Division
Email:dgmtechml.1a@nlcindia.in TELEPHONE: 04142 211783



NOTICE INVITING TENDER (NIT)

DOMESTIC COMPETITIVE BIDDING

Date:15.12.2025

1.0 INVITATION

Online bid is invited by the Executive Director/Mines, NLC India Ltd., Neyveli, for the work given below. The bidders are requested to login to GeM Portal (<https://gem.gov.in>) for participation in e-tender.

2.0 TENDER DETAILS:

1	Tender No.	MINES/TURNKEY/CS/DCB/D015/2025-26
2	GeM Reference No.	GEM/2025/B/6999774
3	Name of the work	MINES-TURNKEY-CS-Supply, Installation, testing & commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with VMS and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL HQ, along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP-Cameras with three years warranty and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions.
4	Period of work	1. For Supply of all materials (excluding deployment of technical manpower) as given in schedule - Within 90 days from the date of LOA. 2. For Installation, testing & commissioning (along with Civil Works) - Within 180 days from the date of LOA. 3. Warranty Period: 03 years from immediately next day of the date of Commissioning of the system i.e. 36 months 4. CAMC Period: 03 years from the next day of completion of warranty period of the system i.e. 36 months Note: The overall contract period is 06 years and 06 months i.e. 78 months from the date of LoA
5	Mode of Tender	Through GeM Portal. i. Online submission of Bid. ii. Off-line submission of original EMD/Bid Guarantee document as per NIT condition.

6	Date of Tender Documents available to bidders to download	15.12.2025
7	Earnest Money Deposit (EMD)	Rs.81,93,000/- (in the form of Insurance Surety Bonds/ Account payee Demand Draft /Bank Guarantee (including e-Bank Guarantee) from a Commercial Bank / online payment in an acceptable form)
8	Exemption for MSEs	Applicable for this Tender.
9	Last Date & Time for online submission of Bid and submission of physical cover.	On 05.01.2026 Up-to 15:00 Hrs. IST
10	Date & Time of opening of bids(Physical and Online)	At 15:30 Hrs. IST on 05.01.2026
11	Reverse Auction	Applicable for this Tender.

3.0 QUALIFYING REQUIREMENTS:

3.1 Technical QR:

PQR 1:

The Bidder, should have Supplied, Installed and Commissioned Integrated Command & Control Centre (ICCC) with Video Management Software (VMS), AI based Video Analytics (VA) Software catering to at least 125 Nos. of CCTV cameras, within last 7 years prior to the original schedule date of tender opening, in any Government/Quasi Government/ PSU/ PSE/ Public Limited Company, in their own name /in the name of any one of the partners.

As on the original scheduled date of tender opening, the performance of the commissioned ICCC should be satisfactory for a minimum period of ONE (01) year from the date of commissioning of ICCC.

PQR 2:

The Bidder, should have Supplied, Installed and Commissioned and/or maintained at least any one of the following works:

- i. Integrated Command & Control Centre (ICCC) through CCTV IP cameras
(OR)
- ii. CCTV IP cameras surveillance system
(OR)
- iii. Centralized Monitoring System with VA/VMS through CCTV IP cameras

within last 7 years prior to the original schedule date of tender opening, in any Government/ Quasi Government/PSU/PSE/Public Limited Company, in their own name /in the name of any one of the partners, as given below:

- a. One work of executed value not less than Rs. **2,219.80** Lakh (excluding GST) in a single Contract agreement/work order (OR)
- b. Two works of executed value each not less than Rs. **1,387.37** Lakh (excluding GST) in two Contract agreements/work orders (OR)
- c. Three works of executed value each not less than Rs. **1,109.90** Lakh (excluding GST) in three Contract agreements/work orders.

PQR 3:

FINANCIAL QR:

(i) (a) Average annual turnover of the bidder for the 3 financial years immediately preceding the original scheduled tender opening date should not be less than Rs. **1,453.00** Lakhs.

(b) In case, if bidder meets the technical QR but could not furnish his/their audited financial statement of three consecutive financial years preceding the last financial year for evaluating the average Annual turnover, due to the incorporation/formation of the bidder, with in a period of less than 3 years from the original scheduled date of tender opening, then such bidder shall also be considered and the average annual turnover of such bidder shall be arrived at as below:

- If the bidder furnished audited financial statement (Profit & Loss Account and Balance Sheet) for the last financial year only, then such bidder's average annual turnover shall be arrived at by dividing the Turnover of the last financial year by three.
- If the bidder furnished audited financial statement (Profit & loss account and balance sheet) for the last two financial years only, then such bidder's average annual turnover shall be arrived at by dividing the sum of turnover of the last two financial years by three.

(ii) The bidder shall have positive Net worth as per their latest audited financial statement.

(iii) In cases, where audited financial statement (Profit & Loss Account and Balance Sheet) for the last financial year immediately preceding the original schedule date of tender opening are not available, a certificate would be required from the bidder stating that the financial statement of the bidder are under audit as on the date of tender opening. In such case, the audited financial Statement of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters.

C. Documentary evidence for the above (i) to (iii) shall be furnished with copies of audited financial statements containing profit and loss statement and balance sheets together with the bid.

4.0 OTHER QUALIFICATION REQUIREMENTS:

4.1 The bidder should have Independent Provident Fund code number allotted in favour of his establishment under EPF & Misc. Provisions Act 1952. Scanned copy of Documentary proof for the PF code Number so allotted shall be uploaded while submitting bid online (Not applicable for works carried out outside NLCIL premises).

4.2 The personnel/workmen engaged by the bidder for execution of works in NLC India Limited shall be in the rolls of the bidder agency and shall have to be given appointment letter/ Employment card under CL (R&A) Act 1970 issued by the bidder to that effect. The bidder has to upload scanned copy of undertaking while submitting bid online.

4.3 The bidder shall also possess a valid certificate of registration under GST Act/Rules and upload a scanned copy of the same in the online bid, if in any financial year the value of service rendered by them/the value of a contract exceeds Rs. 20 lakhs (the present threshold limit for levy of GST); he should have discharged his liability, under the GST Act/Rules to the effect of which, the bidder has to upload scanned copy of undertaking while submitting bid online. In case the above value does not exceed Rs. 20 lakhs, upload declaration to this effect while submitting bid online.

4.4 The bidder should have obtained Permanent Account Number (PAN) under the Income Tax Act. The contractor has to upload self attested scanned copy of PAN CARD as proof of the same in the Bid. It is mandatory for the contractor to upload the self attested scanned print out of the online IT statement indicating Zero tax liabilities for four consecutive Assessment Years prior to the date of tender opening. NLCIL reserves the right to send the same to the Income Tax department for Verification.

Note 1: Proper documentary evidence to substantiate the fulfilment of the requirements specified in para 3.0, 4.1, 4.3 & 4.4 shall be uploaded online.

Note 2: Undertaking/declaration has to be uploaded online, to substantiate the fulfilment of the requirements specified in para 4.2 & 4.3.

5.0 CONDITIONS WITH RESPECT TO PARTNERSHIP FIRM:

i. In case of bid submitted by any partnership firm, the prequalification work experience of partnership firm / any of the Partners of the firm shall be considered for evaluation. However, the financial Turn Over and Net Worth requirement, if any specified shall be fulfilled by the Partnership firm only.

ii. If the bidder is a partnership firm, the partner on whose prequalification the work was awarded, shall not withdraw from the partnership till the completion of the work in case they happened to be the successful bidder. If there is any reconstitution of the partnership, it is the responsibility of the firm to intimate the same to NLCIL immediately. Otherwise the contract will be liable for termination at the risk & cost of the contractor.

iii. If the work experience is furnished in the name of any of the partner of Partnership Firm, to satisfy the prescribed prequalification requirement in the tender, a declaration/undertaking from that partner as "I shall not withdraw from the partnership till the completion of the work, in case our firm happened to be the successful bidder" is to be uploaded online.

iv. In case of a bidder being a partnership firm and using the PQR of a Partner to qualify in the tender and if the same PQR is used by more than one bidder for the same tender, all the bidders using the same PQR will be disqualified.

v. In case, a bid is submitted by a partnership firm, any partner(s) of that Partnership firm cannot bid separately for the same Tender. If the Bid is submitted by both the partnership firm & any partner(s) of that Partnership firm in the same tender, the bids of the Partnership firm and partner(s) will be disqualified.

Note: For details such as Instructions to Bidders, Tender terms & conditions and for participation in online tendering visit GeM Portal (<https://gem.gov.in>).

Note:

For details such as Instructions to Bidders, Tender terms & conditions and for participation in online tendering visit GeM Portal (<https://gem.gov.in>).

2. If MSE bidder happens to be a successful bidder, the EMD amount mentioned, in the Tender Enquiry is to be remitted as Initial Security Deposit (ISD) before the issue of Letter of Award (LOA) within the stipulated days from the date of intimation.

3. The Initial Security Deposit shall be furnished in the form of Insurance Surety Bonds/Account Payee Demand Draft/Bank Guarantee (including e-Bank Guarantee) from a Commercial Bank/ Online Payment in an acceptable form.

Remarks:

Pre-Bid Conference:

Pre-Bid Conference will be held on 27.12.2025 at 11.00 Hrs (IST) at Contracts Division/Mines Administrative office building, Mine I&IA, Block-26, NLCIL, Neyveli-607 803.

The points for discussion shall be furnished in advance at least two days before the scheduled date of pre-Bid meeting, both in hard copy and soft copy (editable copy) to the undersigned and also to the following email id: degmtechml1.la@nclcindia.in

The points for discussion shall be furnished in the above said manner only, on or before the due date.

The points for discussion if any, received after the due date will not be accepted in any manner.

Bidders are requested to attend pre-bid conference at their will on the scheduled date as mentioned above to ascertain the local conditions, nature & scope of work before submitting the bid. The bidders shall have to make their own arrangements to attend the pre-Bid Conference.

For NLC INDIA LIMITED,

-Sd-

GM/Contracts/Mines (i/c)

INSTRUCTIONS TO BIDDERS

1.0 All bids, including all attachments/enclosures shall be prepared in English language only and submit online in the GeM (Government e-Marketplace) Portal. Bidders are requested to read the terms & conditions of this tender before submitting their online bids. In this document the terms "bidders", "Bidders" and "Tenderers" mean one and the same. Also, in this document the terms "Notice Inviting Bid" (NIB) and "Notice Inviting Tender" (NIT) mean one and the same. Similarly, "Earnest Money Deposit" (EMD), Bid Security and "Bid Guarantee" mean one and the same.

2.0 Bidding Process:

2.1 Tenders shall be submitted online, besides submission of sealed cover, within the time limit prescribed in the Tender Notice, beyond which no tender or any other communication shall be accepted. NLC India Limited will not be responsible for any delay.

2.2 The entire bidding process is divided into Two Stages i.e. Stage-I and Stage-II. Stage-I bidding will be through online and submission of sealed cover consisting of Document mentioned in the NIT. Stage-II bidding will be through online reverse auction, wherever applicable.

2.3 The Reverse Auction, if required, will be conducted among the shortlisted bidders with a start price and decremented value. The Reverse auction procedure wherever applicable is detailed under the heading Reverse Auction.

2.4 Reverse auction is applicable for the tenders, where the estimated value of tender inclusive of all taxes is Rs. 50 Lakhs or more.

2.5 However, for manpower oriented works, Reverse auction is not applicable irrespective of the estimated value of the tender.

3.0 EARNEST MONEY DEPOSIT (EMD):

3.1 The Earnest Money Deposit as given in Tender Details is to be submitted along with the tender. The Earnest Money so deposited shall not bear any interest.

3.2 Mode of furnishing Earnest Money Deposit:

3.2.1 The amount specified in the Notice Inviting Tender can be furnished in the form of Insurance Surety Bonds / Account Payee Demand Draft / Bank Guarantee (including e-Bank Guarantee) from a Commercial Bank / Online Payment in an acceptable form safeguarding the Purchaser's interest in all respects. Remittance of Earnest Money Deposit by Cash shall not be entertained. In case of online payment (e-payment), the tenderer shall upload a scanned copy of e-Payment details with UTR No., Remitted Bank, Amount, Date etc., which shall be verified by Accounts Centre.

3.2.2 BANK ACCOUNT DETAILS FOR E-PAYMENT

1) Party Name: NLC India Limited Account Centre/**CMF**

2) NLC Bank Account No: **00000010895129044**

3) Type of Account: Current Account

- 4) Name of the Bank: State Bank of India
- 5) Name of the Branch: Block-2, Neyveli 607801, Tamil Nadu
- 6) Branch Code: 00958
- 7) IFSC CODE (NEFT/RTGS): SBIN0000958
- 8) Telephone No. of the Bank: 04142-255334, 252508
- 9) Email ID of the Bank: sbi.00958@sbi.co.in

3.2.3 Validity of Bid Guarantee: The Earnest Money Deposit if furnished in the form of Bank Guarantee (including e-Bank Guarantee), the validity shall be 120 days from the original scheduled date of tender opening.

3.2.4 The Tenders submitted with the Earnest Money Deposit not in the aforesaid manner shall be summarily rejected.

3.2.5 Any Tender submitted without the Earnest Money or submitted with insufficient EMD or contemplating any adjustment against any amount due from NLCIL shall be treated as non-responsive and summarily rejected.

3.2.6 The Bank commission charges will be to the account of the bidder.

3.2.7 The remittance details shall be clearly indicated by the bidder in their online bid and the qualification of the bidder is subject to the receipt of EMD stipulated in the tender.

3.2.8 Central Govt. Department, Govt. funded Educational / Research Institutions are exempted from submission of EMD.

3.2.9 The Bank Guarantee if submitted against Earnest Money Deposit shall be subject to verification with the bank which issued it. The BG shall be got extended suitably, whenever required.

3.2.10 The Bank Guarantee issued by the issuing Bank on behalf of Bidder/ Contractor/Supplier in favour of "Name of the Company" shall be in paper form as well as issued under the "Structured Financial Messaging System" (SFMS) or e-Bank Guarantee from a Commercial Bank. The details of beneficiary for issue of BG under SFMS platform is furnished below:

Name of Beneficiary & its details:

Name: NLC India Limited

Unit/Area/Division: Mines Contracts Division

Beneficiary Bank, Branch: State Bank of India
& Address Block-2, Neyveli-607801

IFSC Code: SBIN0000958

3.2.11 The above particulars are to be incorporated by the issuing Bank properly while issuing BG under SFMS mode.

3.2.12 For the Bank Guarantee received from the Bidder/ Contractor/ Supplier in paper form and through Structured Financial Messaging System, confirmation will be received from SBI. Otherwise the Bank guarantee submitted in manual mode (not verifiable through SFMS) will be summarily rejected.

3.2.13 Mode of return of Earnest Money Deposit:

3.2.13.1 The bidders who do not satisfy any one of the following i.e., EMD/Bid Guarantee, Affidavit conditions, Integrity Pact (if applicable), PQR, Techno-commercial aspects shall be treated as unqualified bidders. EMD if any shall be released within 7 days from the date of receipt of approval of short listing of the bidders on PQR and Techno-commercial aspects.

3.2.13.2 In case of successful Bidder: The Earnest money Deposit if furnished as Demand Draft/Online payment (e-payment) into NLC India Limited's account, it shall be adjusted towards Security Deposit. If the Earnest money Deposit is in the form of Bank Guarantee (including e-Bank Guarantee), it shall be returned within 7 days from the date of acceptance of Bank guarantee towards security deposit furnished by the bidder.

3.2.13.3 For unsuccessful bidders EMD will be released within 7 days from the date of approval for placement of order on the successful bidder.

3.2.13.4 In case the tender is cancelled, the Earnest money Deposit submitted in any form shall be refunded /returned to all the tenderers.

4.0 CORRIGENDUM:

Amendments /Errata / corrigendum / clarifications, if any issued for the tender shall form part and parcel of the tender document. Amendments /Errata / corrigendum / clarifications will be posted in GeM portal <https://gem.gov.in>. Bidder is requested to visit the above website and note the amendments before submission of offer. Any ignorance on the part of the firm in not seeing the website will not be an excuse. Amendments/ Errata /corrigendum / clarification will be numbered serially. Thebidder is requested to submit all the Amendments / Errata / Corrigendum / Clarifications issued for the tender.

5.0 INTEGRITY PACT PROGRAMME

NLCIL is committed to have most ethical business dealing with the Vendors, Bidders and Contractors of goods and services and deal with them in a transparent manner with equity and fairness.

In order to achieve these goals, NLCIL is implementing the Integrity Pact Programme in co-operation with Central Vigilance Commission (CVC) and renowned International Non- Governmental Organisation, Transparency International India (TII).

The Integrity Pact Programme covers the following aspects:

Commitments and Obligations of NLCIL (Principal).

ii) Commitments and Obligations of Bidder/Contractor.

iii) Violations and Consequences.

iv) Independent External Monitors.

As per the Integrity Pact Programme, an "Integrity Pact", which envisages an agreement between the prospective Vendors, Bidders & Contractors and NLCIL, committing the persons/officials of both parties, not to exercise any influence on any aspect of the contract. Only those Vendors/Bidders/Contractors, who have entered into such an "Integrity Pact" with NLCIL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

Integrity Pact is applicable for all tenders of value Rs. 1.0 crore and above. The format of Integrity Pact forms a part of the tender document for all tenders of value Rs. 1.0 crore and above.

Bidders shall upload the scanned copy of Integrity Pact (if applicable) duly filled and signed while submitting Bid. The details of the Independent External Monitors of NLCIL are given below:

1. Shri. Asha Ram Sihag, IAS (Retd.),
D-396, Second Floor,
Defence colony,
New Delhi-110 024.
Email : arsihag@gmail.com

2. Shri. Anand Deep, IRS (Retd)
Flat No. 804, Prithvi Ratan Green Apartments,
7/172, Swaroonagar,
Kanpur – 208 002,
Uttar Pradesh.
Email : anand.deep117@gmail.com

3. Shri. Prem Chand Pankaj, Ex-CMD/NEEPCO
M-402, Pioneer Park,
Sector – 61, Golf Course Extn. Road
Gurgaon, Haryana.
Email : prempankaj@gmail.com

Bidders are requested to visit NLCIL website: www.nlcindia.in for changes, if any of the Independent External Monitors of NLCIL.

6.0 SUBMISSION OF TENDER AND OPENING:

6.1 The Bidders shall submit their bids online.

In case of EMD/Bid Guarantee submitted in the form of [Insurance Surety Bonds / Account Payee Demand Draft / Bank Guarantee](#), the bidders shall submit the original EMD/Bid Guarantee document in a single sealed Cover.

The sealed cover consisting of the above document shall be submitted with inscription on the top of cover with

Tender No.

Name of Work:

Opening Date & Opening Time

and addressed to

The General Manager/Contracts/Mines,
Mines Contracts Division,
Administrative office Mine-I&IA, Block-26,
NLC India Limited,
Neyveli 607803.

The address of the Tenderer shall be indicated on the Left hand bottom of the sealed cover clearly and dropped in the Tender Box kept in the office (Mines Contracts Division) before the closing time of tender fixed.

Also, the bidders shall upload scanned copy of above Document online.

Bidders to note that their offers will be rejected due to non-submission of above document as prescribed above.

Bidders are also to note that their offer will be summarily rejected due to non-submission of EMD/BID guarantee document in original i.e. [Insurance Surety Bonds / Account Payee Demand Draft / Bank Guarantee](#) in sealed cover even though the above document is uploaded online. In case if payment for EMD is made online (NEFT/RTGS) before the due date and time, and if the same is confirmed to be credited into NLCIL account, then the Bidder satisfies EMD condition through e-payment.

6.2 The Bidders shall accept an "Affidavit" towards the genuinity of the documents furnished by the bidders. The bidders shall sign the "Affidavit" and upload scanned copy of signed "Affidavit" while submitting their online Bid, as a proof for acceptance of declaration available in the Affidavit.

6.3 Bidders are advised to ensure that the sealed Cover shall contain the original EMD / BID guarantee document, apart from uploading the Scanned copy of the above Document online. Scanned copies of all documents as mentioned in the Checklist applicable for this tender, which the bidders are required to furnish, shall be uploaded online only.

6.4 The sealed covers shall be opened in the presence of the Tenderer or his authorized representative (with authorization letter), not exceeding one person from each bidder.

6.5 NLC India Limited shall not be responsible for any delay / loss in receipt of the sealed cover which is sent through post / courier.

6.6 PRICE

6.6.1 Price given should cover the entire scope of work and should be as per price format. The bidder shall quote his price for entire scope of work on firm price basis only.

6.6.2 Notwithstanding any information and data which may be contained in these tender documents, the bidder has to make independent inquiries and generally obtain information on all matters that may in any way affect prices, risks and obligations of the Contractor under the Contract.

6.6.3 The submission of any bid connected with these documents and specifications shall constitute an agreement that the Bidder shall have no cause of action or claim against the NLCIL for rejection of his Bid. The NLCIL shall always be at liberty to reject or accept any bid or bids at their sole discretion and any such action will not be called into question and the bidder shall have no claim in that regard against the NLCIL.

6.7 Policy of bids under consideration

6.7.1 NLCIL's Right to Accept Bid: The NLCIL does not pledge itself to accept the lowest

bid and reserves the right to reject such bids. The other bids will be retained as given. The decision of NLCIL in this regard shall be final and binding on the bidders and the bidders shall not be entitled to any notice in this regard or to any compensation whatsoever.

6.7.2 The Bidder has to satisfy himself while submitting bid that full information is furnished as required in the tender documents.

6.8 Participation & Submission of Online Bid and Opening of Bid:

6.8.1 Before commencement of online bidding process by the bidder, the bidders shall keep ready the scanned copies of the following Documents:

1. EMD / Bid Guarantee Document (or) Document for exemption from furnishing EMD / Bid Guarantee (in case of MSME/NSIC bidders) (as per requirement of NIT conditions)
2. Integrity Pact with signature (Applicable for Tenders of value Rs.1.0 crore and above)
3. Work completion certificate or Finalisation order satisfying the Qualifying requirements (Not applicable for Limited Tender Enquiry).
4. Copy of Annual report containing audited standalone Profit and loss statement and Balance sheet for three financial years immediately preceding the scheduled tender opening date (if required as per NIT conditions) (Not applicable for Limited Tender Enquiry).
5. Documentary proof for PF code Number (Not applicable for works carried out outside NLCIL premises)
6. GST Registration certificate (in case the value exceeds Rs. 20.0 Lakhs (or)
Signed Declaration as available in the formats (In case the value is within Rs.20.0 Lakhs)
7. PAN card (with self attestation)
8. Print out of Online IT statements for 4 consecutive Assessment Years prior to the date of tender opening (with self attestation)
9. In case of Partnership firm,
 - i. Partnership deed / Reconstituted Partnership Deed as the case may be
 - ii. Certificate issued by Registrar of firms for firm Registration
 - iii. If reconstituted, Cash receipt or note issued by Registrar of Firms to this effect.
10. In case of Public/Private Limited Company,
 - i. Memorandum of Association
 - ii. Article of Association
 - iii. Certificate of Incorporation.
11. MSME Certificate (UDYAM Registration certificate) (If the Bidder is an MSME Registered Bidder).
12. Bidder Details Form duly filled and signed by the bidder.
13. Tender Form.
14. Declaration Form.
15. Bank Account Details with Branch Manager Signature, Code number and Bank seal (with self attestation) (for bidders who are not having party code allotted by NLCIL for e-payment).
16. Undertaking regarding engagement of Personnel/Workmen in the rolls of the Bidder and Appointment letter/Employment card & GST Compliance.
17. Undertaking regarding furnishing documents/clearance certificates required for Finalisation & Closure of Contract.

18. Undertaking regarding payment of minimum wages.
19. Affidavit Declaration.
20. Bidder Declaration regarding Banning/Debarring/ Blacklisting.
21. Declaration/undertaking from the partner (applicable if work experience is furnished in the name of any one of the partner of the partnership firm).
22. Undertaking regarding unfair labour practice.
23. Any other supporting Document, relevant to the tender.

6.8.2 Any Bid without EMD/Bid Guarantee shall be rejected.

6.8.3 On the scheduled date of tender opening, Tender Box will be opened first, followed by e-Bid Opening. The offers/bids of the bidders who satisfy the conditions of EMD/Bid Guarantee, Affidavit declaration, Integrity Pact (if applicable) shall alone be considered for further evaluation on PQR aspects. The bidders who qualify in PQR conditions alone shall be considered for further evaluation on Techno-commercial aspects. The bidders who get qualified on techno-commercial aspects shall alone be considered for price bid opening.

6.8.4 After short listing of bidders on EMD /Bid Guarantee, Affidavit Declaration, Integrity Pact (if applicable), PQR conditions and on Techno-commercial aspects, the price offers/bids of the shortlisted bidders shall be opened and the bidders will be ranked as R1, R2, R3.., starting from the lowest offered price and increasing in the ascending order. For evaluation purpose price quoted in Tender Schedule alone shall be taken into consideration. The date of online opening of Price Bid will be intimated to the qualified bidders.

6.8.5 Reverse auction (if applicable) shall be conducted among the qualified bidders with the elimination of bidder(s). After reverse auction, the bidders will be ranked as RL1, RL2, RL3.....

6.8.6 In case of non participation of bidders in the RA/ no reduction of Price in the RA, where Reverse Auction is applicable, then the prices of bidders including the eliminated bidders if any will be ranked as R1, R2, R3 (as mentioned in above para) shall hold good.

6.8.7 Based on the price ranking, the end user verification/ confirmation of the PQR documents submitted by bidder, who offered the lowest price in the reverse auction (RL1 bidder) or the R1 bidder (in case of no RA/non participation in RA/no reduction in RA) shall be carried out.

6.8.8 In case, the documents of the bidder who offered lowest price (RL1/R1) are found to be false/incorrect, the next lowest bidder's offer in their order of price ranking including eliminated bidder (s) if any, will be verified till a successful bidder is identified.

6.8.9 During the above said evaluation process, in case, the documents of the bidder(s) are found to be false/incorrect, then the bid(s) of such bidder(s) shall be rejected and the EMD/Bid Guarantee amount of the bidder(s) will be forfeited, besides banning of such bidder(s) for a specific period as per the extant procedures.

- 6.9 Price shall be quoted for NLC India Limited site of work basis and shall be in the NLC India Limited format only. NLC India Limited reserves its right to reject such bid which are not in conformity with the above requirement.
- 6.10 Due to Administrative reasons, if the tender could not be opened on the Scheduled date, the revised date of opening will be intimated later to those who have responded.
- 6.11 **BID VALIDITY:** Tenders shall be kept valid for 90 days from the date set for Tender opening. However if any extension of validity is called for, the Bidder shall extend the same.
- 7.0 **OTHERS:**
- 7.1 The Tenders submitted late in any manner shall not be accepted and shall be rejected.
- 7.2 If the closing date of submission of Tender is later declared as a holiday, there will not be any extension for submission of online tender. i.e. the original scheduled closing date of submission of tenders shall be adhered to by the bidders. However, the Tender Box will be kept opened on the next working day for dropping of Sealed Cover. Hence, the sealed cover and online tender will be opened on the next working day.
- 7.3 NLC India Limited, reserves its right to reject any or all bids received or cancel the Tender or award the work to any tenderer or more than one tenderer by splitting the scope of work, without assigning any reason.
- 7.4 NLC India Limited shall not entertain any claim on account of preparation of tenders.
- 7.5 The Tenderer shall upload an attested copy of the License obtained from the Licensing authority, wherever applicable and considered necessary, failing which the tender shall be rejected.
- 7.6 The quantum of work mentioned in the schedule is only an indication of the probable quantity that may have to be done during currency of this contract. The NLC India Limited reserves the right to increase or decrease the quantum of work to suit the site requirements and exigencies and the contractor shall execute the work on the same terms and conditions and rate through out the period of the contract.
- 7.7 Work Order/ Agreement copy is not sufficient. Scanned Copy of the work completion certificate/part completion certificate /Finalisation Order meeting the Pre qualification value and details of work done to meet pre qualification requirement as called for in the NIT must be uploaded. Original work completion certificate/ part completion certificate/ finalisation order has to be produced if demanded.
- 7.8 Residential accommodation may not be provided by NLC India Limited in lieu of this contract.
- 7.9 If the bidder is a partnership firm, Scanned Copy of the partnership deed is to be uploaded and if there is any reconstitution of the partnership during the contract period, the same shall be intimated to NLC India Limited immediately along with copy of reconstitution deed. Otherwise the contract will be liable for termination at the risk & cost of the contractor.
- 7.10 Any Clarification on the above tender can be had from
The General Manager /Contracts/Mines,
Mines Contracts Division,

Administrative office Mine-I&IA, Block-26,
NLC India Limited,
Neyveli 607803.
Phone No: 04142-211783
Email: dgmtechm1.1a@nlcindia.in

7.11 Forfeiture of Earnest Money Deposit: The Earnest Money Deposit shall be encashed if the Tenderer withdraws his Tender proposal / modifies / changes / alters / impairs / derogates the Tender proposal on his own after the Bid is opened and before acceptance or within the subsistence of the validity period of offer or fails to accept the Letter of Award issued by NLC India Limited or fails to submit Security Deposit or fails to turn-up and execute contract agreement or fails to commence the work as per LOA. Such bidders will be suspended / banned subject to action as may be deemed fit in conjunction with clause J - Other Conditions - Penal Actions. In case of unilateral revision or withdrawal of offer by the bidder after opening the bid shall also result in rejection of bid without notice.

7.11(a) In case of MSME / NSIC, if they fail to submit SD as mentioned in the LOA, they will be banned as per Clause J - Other Conditions - Penal Actions(iii) and the same will be intimated to all units of NLCIL and MSME / NSIC authorities.

7.11(b) If NLC India Limited has any authentic information about the intending Tenderer having formed a Cartel / submitted Non- earnest Bids, the Tender will be cancelled and the Earnest Money Deposit of all such Tenderers shall be forfeited, besides initiating actions like banning (for two years) as may be deemed fit in conjunction with Clause J - Other Conditions - Penal Actions (iii).

7.12 The performance certificates and other documents related to pre-qualification furnished by the tenderer along with the bid are liable to verification on authenticity. During the evaluation process, in case, the documents of the bidder(s) are found to be false/incorrect, then the bid(s) of such bidder(s) shall be rejected and the EMD/Bid Guarantee amount of the bidder(s) will be forfeited, besides banning of such bidder(s) for a specific period as per the extant procedures.

7.13 If the tenderer is a partnership firm, the partner on whose pre-qualification, the work was awarded shall not withdraw from partnership till the satisfactory completion of work in case they happened to be the successful bidder.

7.14 The Contractor should not sub-contract the work back to back.

7.15 The bidder is requested to login to GeM portal (<https://gem.gov.in>) for participation in e-tender.

7.16 Bidders are advised to visit the GeM portal (<https://gem.gov.in>) regularly to remain updated with latest information to ensure that they do not miss out any corrigendum / addendum uploaded against the said e-tender, after downloading the e-tender document or after submitting the online Bid. The responsibility of downloading the related corrigendum, if any, will be that of the bidders.

7.17 In all Tenders except for "works contract", Micro and Small Enterprises (MSEs) registered with NSIC/UDYAM Registration /District Industries centers/Khadi and Village industries Commission (KVIC)/Khadi and Village industries Board (KVIB)/Coir Board/Directorate of

Handicraft & Handloom or any other body specified by Ministry of Micro and Medium Enterprises are exempted from furnishing Earnest Money Deposit (EMD) irrespective of relevance of product category /services. The copies of relevant documents issued by the Competent Authority prescribed under the MSMED Act 2006 shall be enclosed in this regard.

7.17(a) If the Quarters address under NLC India Limited control is indicated as "Communication Address" in the NSIC certificates/MSME certificates or other certificates from the Competent Authority prescribed under the MSMED Act 2006 furnished by the tenderer, this will be accepted. But if the Quarters Address under NLC India Limited Control is mentioned as "Factory/plant Address", the NSIC certificates/MSME certificate or other certificates from the Competent Authority prescribed under the MSMED Act 2006, will be rejected.

7.17(b) The above Clause 7.17 is not applicable to works contracts Tenders.

"Works contract" means a contract for building, construction, fabrication, completion, erection, installation, fitting out, improvement, modification, repair, maintenance, renovation, alteration or commissioning of any immovable property wherein transfer of property in goods (whether as goods or in some other form) is involved in the execution of such contract.

7.17(c) Exemption of Payment towards Earnest Money Deposit (EMD) is applicable to the Insurance companies in the tenders for insurance coverage.

7.18 If it happens to be a single tender on the scheduled date of tender opening, the same will be opened on the same scheduled date and time of opening.

8.0 Assessing of seven years period in Qualifying Requirements:

8.1 Assessing of seven years period:

i) If the period of completion of the work executed or the year in which the work was executed by the tenderer falls within the 7 years period prescribed in the P.Q. clause the total value of the work executed in that agreement shall be considered for P.Q. value. Similarly even if only part of the completion period is within last 7 years, total value of work executed in that agreement/ contract shall be considered for P.Q. value.

ii) If the period of work is not mentioned in the documentary evidence submitted by the tenderer, the year of work indicated in the document will be considered as financial year.

iii) For the purpose of evaluation, the completed contract value will be taken into consideration and not the agreement value. In case the contract is not completed in full and if the payment made for the portion of work executed satisfies the P.Q. value, the same will be considered.

8.2 The partnership firm shall upload scanned copy of the certificate issued by the Registrar of Firm for Firm Registration/ Firm Reconstitution /Copy of cash receipt or the note issued by Registrar of Firms for receipt of documents towards Form-V for Firm re-

constitution as the case may be; The offer of the Firm, which fails to furnish the above documents, is liable for rejection.

8.3 If a bidder is represented by an authorized representative/ Agent/ Power of Attorney holder, such authorized representative, agent etc shall not sign and submit any other bids in his Personal behalf or by representing any other bidders. If more than one bid are received from any person in his personal capacity and / or representative capacity, all such tenders will entail in rejection.

8.4 Documentary evidence submitted by the Bidder(s) towards qualifying requirement(s) such as copy of work completion certificate or Part completion certificate or finalization order uploaded in the online tender shall contain the following:

i) Name of work

ii) Agreement No.

iii) Finalised value & Date of completion

iv) For part completion works, the executed value with relevant period of work

v) Name of the Tenderer with address

9.0 LOCAL CONDITION

9.1 It shall be imperative on the part of each Tenderer to fully inform himself of all local conditions, factors, problems, which may have an effect on the execution of the scope of work, covered under the Tender documents and Specifications. In the interest of the Tenderer, it is advisable to visit the Site and collect all information needed. Before submitting Tender proposals, it is to be understood that the Tenderer had properly investigated and considered the situation.

9.2 The intending tenderer shall carefully study the tender documents and shall make a complete and responsive offer.

9.3 Lack of clear understanding shall not be entertained at any point of time by NLC India Ltd. as cause for any financial and of time adjustment.

9.4 Any clarification necessary may be obtained well in advance to prepare the Tender.

10.0 ORDER OF PRECEDENCE:

10.1 The Special Conditions shall prevail over General Conditions of Contract.

10.2 The item description in the Schedule prevail over any other description and drawings.

11.0 ACCEPTANCE OF TENDER/LOA:

11.1 The Acceptance of tender will be intimated by issue of a Letter of Award, which will be signed and accepted by the Successful Tenderer within 7 days from the date of receipt of LOA, failing which it will be construed that the LOA has been accepted by the Bidder. The Contract Agreement shall be concluded within the time period specified in the General Conditions.

11.2 Canvassing in any form is Strictly Prohibited.

12.0 RIGHTS OF NLC INDIA LIMITED:

12.1 NLCIL Reserves the right to reject any or all tenders and or to split up the work and award to two or more tenderers at its own discretion without assigning any reason.

12.2 NLCIL also reserves the right to have parallel contract with one or more contractors with rates for any item at the same level /lower, or higher.

- 12.3 Any proposal to change/Modify /Withdraw any terms, conditions, rates quoted for any item after the Tenders are opened shall not be entertained.
- 12.4 The Tenderer shall furnish the details of any relative employed in any capacity in any office/work site of NLC India Limited failing which, action will be taken as deemed fit.
- 13.0 **COST OF PREPARATION OF TENDER:** The Tenderer shall bear all costs and expenditure associated with the preparation of the Tender and connected work. NLC India Limited shall not be liable for these costs.
- 14.0 Bidders are advised to quote the most competitive price in the initial bid as well as in the Reverse Auction (RA), wherever applicable, since there will not be post tendering negotiations with L1 bidder under any circumstances.
- 15.0 Acceptance of EMD / Bid Guarantee / Performance (or) Contract Guarantee/Security Deposit:
For Purchase and Contracts, EMD / Bid Guarantee / Performance Security furnished in the form of Insurance Surety Bonds / Account Payee Demand Draft / Bank Guarantee (including e-Bank Guarantee) from a Commercial Bank / Online Payment in an acceptable form safeguarding the Purchaser's interest in all respects, shall be accepted.

CHECK LIST – 1

A. Document to be submitted in sealed cover which is to be dropped in the Tender Box before closing time of Tender Box.

1. EMD/Bid Guarantee (Original in case of [Insurance Surety Bonds / Account Payee Demand Draft / Bank Guarantee from a Commercial Bank](#)).

B. Scanned copy of the documents to be uploaded Online.

1. EMD/Bid Guarantee (or) MSME/NSIC certificate.

(or)

In case of e-payment, e-payment details with UTR No., remitted Bank, Amount, date etc., with Tender Number.

2. Integrity Pact * with signature (Applicable for Tenders of value Rs. 1.0 crore and above).

3. Work completion certificate or Finalisation order satisfying the Qualifying requirements.

4. Copy of certificate from Chartered Accountant with copies of Audited Financial Statements containing Profit and Loss Statement and Balance Sheets (if required as per NIT conditions).

5. Documentary proof for PF code Number (Not applicable for works carried out outside NLCIL premises).

6. GST Registration certificate (in case the value exceeds Rs. 20.0 Lakhs).

(or)

Signed Declaration as available in the formats (In case the value is within Rs.20.0 Lakhs).

7. PAN card (with self attestation).

8. Print out of Online IT statements for 4 consecutive Assessment Years prior to the date of tender opening (with self attestation).

9. In case of Partnership firm,

i. Partnership deed / Reconstituted Partnership Deed as the case may be.

ii. Certificate issued by Registrar of firms for firm Registration.

iii. If reconstituted, Cash receipt or note issued by Registrar of Firms to this effect.

10. In case of Public/Private Limited Company,

i. Memorandum of Association.

ii. Article of Association.

iii. Certificate of Incorporation.

11. MSME Certificate (UDYAM Registration certificate) (If the Bidder is an MSME Registered Bidder).

12. Bidder Details Form (ANNEXURE-I) * duly filled and signed by the bidder.
13. Tender Form (ANNEXURE-III) *.
14. Declaration Form (ANNEXURE-IV) *.
15. Bank Account Details with Branch Manager Signature, Code number and Bank seal (with self attestation) (ANNEXURE-VI) *.
16. Undertaking regarding engagement of Personnel/Workmen in the rolls of the Bidder and Appointment letter/Employment card & GST Compliance *.
17. Undertaking regarding furnishing documents/clearance certificates required for Finalisation & Closure of Contract *.
18. Undertaking regarding payment of minimum wages *.
19. Affidavit Declaration *.
20. Bidder Declaration regarding Banning/Debarring/ Blacklisting *.
21. Declaration/undertaking from the partner (applicable if work experience is furnished in the name of any one of the partner of the partnership firm) *.
22. Undertaking regarding fair labour practice *.
23. Any other supporting Document, relevant to the tender.

*** The formats are available under “Formats and Annexures”. The bidders are requested to fill the required details with signature and upload scanned copy of the same.**

TECHNO-COMMERCIAL CONDITIONS

GENERAL CONDITIONS

A. GENERAL

1.0 DEFINITION OF TERMS:

- 1.1 Acceptance:** Acceptance shall mean the manifestation by the company the assent to the terms and conditions mutually agreed.
- 1.2 Agreement:** Agreement shall mean mutually understanding of the terms, conditions between the parties which creates obligations between them.
- 1.3 Bill of quantities:** Bill of Quantities shall mean the quantities for various items indicated in the Schedule.
- 1.4 Codes:** Codes and standards shall mean such codes and standards as prescribed in Indian Standards Specification or equivalent as applicable to the scope of work.
- 1.5 Conditions:** Conditions shall mean the conditions agreed between NLCIL and the Tenderer.
- 1.6 Contract:** The Contract shall mean an agreement between NLCIL and the Tenderer.
- 1.7 Contractor:** Contractor shall mean successful Tenderer whose tender has been accepted.
- 1.8 Day:** Day shall mean the period between midnight to next midnight.
- 1.9 Defect:** Defect shall mean lack of something to meet the performance of the scope of work agreed in the contract.
- 1.10 Dimensions:** Dimensions shall mean length, area, volume, all expressed metric system.
- Length = Cm/Mtr
 - Surface measurement = Sq. mtr.
 - Volume measurement = Cu.mtr.
- 1.11 Drawing:** Drawings shall mean such drawings provided along with tender and modified or as furnished later.
- 1.12 Force Majeure:** Force majeure shall mean an irresistible force of compelling circumstances beyond ones control.
- 1.13 Letter of Award:** Letter of Award shall mean the official communication issued by the Executive of NLCIL notifying legally the tenderer that his tender has been accepted on mutually agreed terms and conditions.
- 1.14 Minutes of meeting:** Minutes of meeting shall mean officially recorded statement of facts on various points discussed and signed by authorised representatives.
- 1.15 NLCIL:** NLCIL shall mean NLC India Limited and its authorised Executives/ Officials / Representatives.
- 1.16 Price:** Price shall mean the price/amount/rate per item agreed for the scope of work.
- 1.17 Specifications:** Specification shall mean the technical and commercial specification including amendments if any.
- 1.18 Tender:** Tender shall mean the Tenderers' offer / Proposals with his terms, conditions, specifications, prices to perform the scope of work.
- 1.19 Tenderer/Bidder:** Tenderer/bidder means a Person/Firm/Company who submits a Tender against Tender enquiry.
- 1.20 Time for completion:** The time for completion shall mean the time/period agreed for completing the scope of work.
- 1.21 Work:** Work shall mean as defined in the Tender Schedule.
- 1.22 Worker:** Worker shall mean any authorised worker of any trade and skill working in the allotted area.
- 1.23 Labour Laws:** Various Labour Laws shall mean such acts, law including amendments issued.

2.0 Scope of Work:

- 2.1 The Scope of Work to be performed by the Contractor shall be as specified in the Tender Schedule.
 - 2.2 The work shall be carried out as per the directions of the Executives of NLC India Limited.
 - 2.3 The Work may not be continuously available as the plant / equipment is in operation to meet the production target.
 - 2.4 The Quantities furnished in the Schedule are approximate only and NLC India Limited reserves the right to increase or decrease the quantum of work to suit the site requirements and exigencies and the contractor shall execute the work on the same terms and conditions and rate throughout the period of the contract.
 - 2.5 The work shall be carried out carefully so as to avoid causing any stain or damage over the door, window, ventilator, electrical/mechanical equipments and other machinery etc. and stain if any caused shall be thoroughly cleaned to the satisfaction of the Executives of NLC India Limited.
 - 2.6 The site of work shall be kept clean, free from rubbish and dismantled materials. All rejected and unwanted materials, debris etc., shall be removed from the site within 24 hours. If the contractor fails to do such clearance work, the work shall be got done departmentally, two days after the issue of a single written notice to the Contractor and the expenditure incurred therefore shall be recovered from the contractor's bills.
 - 2.7 **In case of Labour supply contracts**, the Scope of Work to be performed by the Contractor shall be to engage required number of workmen in various trades and skills on daily/ weekly / monthly basis as intimated in advance.
 - 2.8 The contractor shall not sublet, transfer or assign the contract on back to back basis. However, transferring or assigning part of the contract to any other party / parties would be permissible only with the specific permission in writing by NLC India Limited. Subcontracting shall be permitted only with the specific written approval by NLC India Limited.
 - 2.9 Notwithstanding any permission being granted by NLC India Limited to the Contractor to sublet, transfer or assign, the contractor shall always be held responsible for the due fulfillment of the Terms and conditions and scope of work and shall not be relieved of his obligations.
 - 2.10 The contractor while performing the scope of work, shall co-ordinate with the Executives of NLCIL, other contractors and staff working in the area.
- 3.0 IN RESPECT OF ELECTRICAL WORKS:** The contractor shall ensure that the electrical license is valid throughout the contract period. Otherwise the contract will be terminated at the risk & cost of the contractor.
- 4.0 IN RESPECT OF SMD ROAD WORKS:** In all the road sub-base formation platform, works with rubble soling (laterite or granite spalls) if any, seignorage or other duties levied by the Govt., the same have to be borne by the bidder .

5.0 FACILITIES TO BE PROVIDED BY NLCIL:

- 5.1 NLC India Limited will provide necessary entry permits for the representatives, workers and Supervisors of the Contractor to carry out the scope of work and others like inspection, checking, unloading, bill follow up etc. as per the requirements.
- 5.2 NLC India Limited will provide necessary Work area/front clear of hindrance.
- 5.3 NLC India Limited will provide Power and water required for the work free of charges.
- 5.4 Suitable illumination of the area by floodlights shall be provided by NLC India Limited, free of cost to enable the Contractor to work at nights. The Contractor shall be prepared to arrange the work even in 3 shifts if so desired by the officers of NLC India Limited.
- 5.5 Pumping of the sub-soil water if found necessary during the execution of the work shall be done by NLC India Limited free of cost. But bailing out of seepage water shall be done by the contractor himself.

6.0 Entry Permit:

- 6.1 The contractor or his authorized representative shall meet the officers concerned of NLC India Limited for obtaining necessary permit for the workmen and Supervisors to enter the area for work and receive instructions regarding the works to be carried out.
- 6.2 The contractor shall produce police verification certificate for the contract workers employed by them to the concerned Unit HR department to get Gate pass/Entry Permit, if the period of work of the contract is more than 90-days.
- 6.3 The contractor shall ensure that all the contract workers employed by them possess valid entry permit issued by the Competent Authority. No worker or supervisor shall be permitted inside the Unit without such entry permit. Mere issue of LOA does not entitle the contractor to demand entry to his workmen/ Supervisor without any valid entry permit.
- 6.4 The area of work is inside the open cast Mine/ Factory with mechanical, electrical equipments working. Therefore unauthorised person and children are not allowed inside the Mines/factory.
- 6.5 The entry into the plant operation area shall be permitted with due authority and co-ordination with operating staff.
- 6.6 There may be working space constraints for working in certain areas.
- 6.7 Since the plant / equipment is in full operation, the working time and area may be regulated some times. The Contactor shall fully co-operate with NLCIL in this regard.

7.0 DEFECTIVE WORKS / DAMAGES:

- 7.1 Defective work if any, carried out shall be rectified to the full satisfaction of the NLC India Limited, by the contractor at his own cost.
- 7.2 If the work is stopped and assigned to some other agency due to the use of inferior quality of material and / or due to poor workmanship and if the total cost of completing the work exceeds the contract amount, such excess amount will be recovered from the contractor. If the cost is lower, the benefits will be accrued to the NLC India Limited and the contractor will have no claim whatsoever for this benefit.
- 7.3 Any faulty work noticed and pointed out by the officers of NLC India Limited shall be rectified by the contractor himself at his cost.
- 7.4 It is the responsibility of the contractor to see that the machines, equipments including welding machine, compressor, cutting machines, Dozer, Lorries, Jeeps etc. provided by NLC India Limited are returned in proper acceptable condition.
- 7.5 The cost of rectifying the damages if any, to the equipment entrusted to the contractor shall be to the contractor's account together with overhead charges and the cost will be recovered from the contractor's bills,

- 7.6 Cost of any damages caused to the materials in handling shall be recovered from the contractor at the rate fixed by NLC India Limited. The amount of recovery fixed by NLC India Limited shall be final.
- 7.7 Damages or loss caused by the Contractor or his employees to the property like materials, equipments, water supply, power supply, power supply / Telephone connections, fittings or other installations of NLC India Limited shall be made good by the Contractor at his own cost to the full satisfaction of NLC India Limited and the delay if any involved in rectification/setting right/making good shall be deemed to be the delay attributable to the Contractor
- 7.8 In case of any damages like puncturing of cable etc. caused by any worker engaged by the contractor is liable for a nominal fine as decided by the Official of NLC India Limited and shall be recovered from the immediate bill payable to the contractor as decided by the officers of NLC India Limited.
- 7.9 Any unauthorised burying of cable or any other materials of NLC India Limited either by excavated earth or silt or slush by any contract worker, the contractor is liable for a nominal fine as decided by the official of NLC India Limited and shall be recovered from the immediate bill payable to the contractor.
- 7.10 The empty gunnies shall be returned to the Section stores in good serviceable condition failing which the cost of gunny bags as fixed by NLC India Limited from time to time will be recovered from the contractor's bills.
- 7.11 For any theft, loss, damages caused to the materials at any point of time, after issue to the Contractor, the Contractor is responsible and the cost thereof at the rate fixed by NLCIL will be recovered from the bill of the Contractor.
- 7.12 Where there are claims against third parties in connection with the Contract for any loss, damage, injury etc., the Contractor shall at all times follow the claims to the finality and pass on the proceeds to NLC India Limited wherever applicable.
- 7.13 The Contractor shall duly indemnify NLC India Limited against any such loss, damage, injury.
- 8.0** All tools and plants except those specified in the schedule shall be provided by the contractor himself at his own cost.
- 9.0 MEASUREMENTS:**
- 9.1 NLCIL's representative shall take measurement of work done, in the presence of the Contractor or his representative, and shall record them. The Contractor's signature shall also be obtained as a token of his acceptance of the measurement.
- 9.2 The Representative of NLCIL shall check the measurements recorded and certify for acceptance and payment.
- 9.3 The Measurement records shall be kept lodged with NLCIL.
- 9.4 All measurements shall be carried out as per IS-1200 unless otherwise specified.
- 9.5 In the event of any dispute with regard to the measurement of the work executed, the decision of the Representative of NLCIL shall be final and binding on the Contractor.
- 10.0 Recovery:** Any recovery to be effected towards penalty or any other dues, due from the contractor during the period of contract shall be recovered from any of the outstanding bills or any other pending payment from NLC India Limited.
- 11.0 SECRECY:** The contractor and the workmen shall maintain absolute secrecy on all technical issues and shall not use them elsewhere.
- 12.0 PROTECTION OF MONUMENTS, FOSSILS.**
If the Contractor during the course of execution of work finds any relic, antiquity coins, fossils etc. shall protect them and hand over to NLC India Limited.

- 13.0 PRESERVATION OF PEACE:** The contractor shall take adequate precautions and use his best endeavor to prevent and avert any riots or any unlawful actions by workers engaged by him and preserve peace all the times.
- 14.0** The contractor shall not be entitled for claiming any residential accommodation by NLC India Limited on account of this contract.
- 15.0** NLCIL has framed comprehensive guidelines to pay a just compensation to the families of the Victims Viz., members of general public, dying at public places or suffering permanent disability arising out of accidents due to negligence and/or unforeseen causes, where the accident happens in any premises where any official activity of the company is undertaken. Any compensation paid under those guidelines shall be recoverable from the contracts & agreement entered into by the company with any person or Agency for maintenance, operation and provisioning of public service.
- 16.0 Language:** English language shall be the language on all matters.

B. PRICE (Rates/Wages):

1.1 For maintenance Contracts:

- 1.1.1 The rates shall be inclusive of all heights and depths for the works to be carried out Inside Mines and no extra payment shall be admissible.
- 1.1.2 The rates for the respective items of work shall be inclusive of supply of all materials required for the job, except those that will be supplied by NLC India Limited as per schedule.
- 1.1.3 The rate shall remain firm during the entire tenure of the contract including extension, if any and no claim for increase or escalation on the part of the Contractor on any account except those that are specifically provided, shall be entertained by NLC India Limited.
- 1.1.4 The rates quoted for the various items shall be inclusive of cost of scaffolding wherever necessary.

1.2. For Labour supply contracts:

- 1.2.1 The Wages per Manday for each trade skill wise shall be as indicated in the price schedule by NLCIL. However, any revision in rate of wages for labour shall be reimbursed at actuals without the Tender difference.

1.3. MANNER OF QUOTING (Revealed Rate):

- 1.3.1 In Tenders where, the item wise rates, Quantity, Line total and Grand Total are revealed in the Tender schedule, the Tenderer is expected to quote as a percentage of Schedule-I Tender value.
- 1.3.2 The Tenderer shall quote his rate in the manner explained in the examples in the Tender schedule. In other words tenderer should not quote by way of percentage difference as (+) or (-) of the Schedule-I tender value and if so quoted the offer shall be summarily rejected.(Not applicable for pure Labour supply contracts).
- 1.3.3 **For Pure Labour/Man Power Supply Contracts:** In case of Tenders for pure labour supply/ man power contracts, where the contractor has to pay wages as per the Minimum wages Act and other statutory charges, the tenderer should quote their rate in percentage of Schedule-I Tender value by taking into account their service charges/Administrative charge.
- 1.3.4 The rate shall be quoted to the accuracy of two decimal places only. The digits after the second decimal place will not be taken into account and will be truncated as such.

1.4 MANNER OF QUOTING (Without Revealing Rate):

- 1.4.1 In Tenders where, the item wise rates, Line total and Grand total are not revealed in the Tender schedule, the Tenderer shall quote rates /prices for all items of the work described in the Schedule.
 - 1.4.2 Unless otherwise specified, the Price for all items including Cost of Material, Labour and other charges shall be quoted on unit rate basis.
 - 1.4.3 The bidders shall quote their rate / price including all applicable Taxes **except GST**. Applicable GST shall be paid by NLCIL on claim by the contractor against submission of invoices / Bills containing required details as sought by NLCIL. Applicable GST laws shall prevail. GST applicable shall be paid **extra** on the basis of rates in force from time to time.
 - 1.4.4 In case rate is not quoted / indicated as “Not Applicable” or “Nil” for any of the item, it shall be construed that the Bidder has included price for such items also in their total quoted price and also, no separate payment will be made for the same. Where there is discrepancy between rates in figures and words, the rates expressed in words shall prevail and govern.
 - 1.4.5 The rate quoted for all items shall be inclusive of all expenses connected with carrying out the works at various heights and depths.
 - 1.4.6 Individual items should not be quoted unless specified.
 - 1.4.7 **For item rate Contracts:** If in the opinion of the Tender Committee, the prices quoted for certain items by the lowest evaluated bidder are abnormally high (AHR) or abnormally low (ALR) in comparison with the Cost Estimates, these items will be specifically identified and mentioned in the Letter of Award. The Letter of Award will also clearly state that in the event of increase in quantity of such items, the market rate analysis will be done and the Contractor will be paid either the market rate or the rate quoted by the Contractor whichever is less for the increased quantity. Items with rates beyond + or - 25% of the estimated rate of respective items will be identified as AHR/ALR.
 - 1.4.8 NLC India Limited reserves the right to curtail the agreement quantity and the period of contract for any shorter duration as may be considered necessary.
- 1.5** Unless otherwise specified, the Price quoted shall be for all items including Cost of material, Labour, other charges, taxes and duties **except GST**, on firm price basis. The GST shall be paid **extra** on the basis of rates in force from time to time, against submission of invoices / bills containing required details as sought by NLC India Ltd. Applicable GST laws shall prevail.
- 1.6** The bidder should quote in the tender schedule issued by NLC India Limited. Bidders quoting prices other than in the specified schedule form will not be considered.

2.0 Cases of Equal bidding:

In case of equal acceptable bidding, the successful bidder will be selected as per GeM procedure.

C. MATERIALS:

- 1.1 The contractor shall be responsible for obtaining permission for quarrying and for the payment to the concerned Departments of all import duties, taxes, octroi, seignorage, fees, quarry fees, wherever they are payable in respect of all materials and articles supplied or procured by him for the work.
- 1.2 The material used shall comply with the relevant standard specification and shall be approved by Officers of NLC India Limited.
- 1.3 The Contractor shall bring the materials required for the work only from the quarries/sources approved by NLC India Limited.
- 1.4 The material brought in by the contractor should be entered in the CISF at the mines entry point while the material is brought into the mines. This is required for all the materials including laterite, gravel etc .

2.0 SUPPLY OF NLCIL MATERIALS

- 2.1 The materials issued by the Officers of NLC India Limited shall be used only on the work for which they are issued and any excess material above the actual shall be accounted and properly returned to the section stores in good condition. If any material is found used in excess of actual requirement, the cost of the excess quantity shall be recovered from the contractor at double the normal prices fixed by NLC India Limited plus the other charges as may be fixed.
- 2.2 Once in a month, along with bill for monthly payment, a statement of NLCIL materials, Opening balance, items received, items utilized and the balance shall be submitted by the Contractor. The statement as well as the physical balance available with the Contractor shall be checked by NLCIL at any time.

D. LABOUR

- 1.1 **Labour License:** Under the provisions of the Contract Labour (Regulation and abolition) Act 1970 and the Contract Labour (Regulation and abolition) Rules 1971, any contractor who employs or employed 20 or more workmen on any day of the preceding 12 months shall obtain a License. The license so obtained shall be renewed and kept valid so long as the Contractor is discharging service to NLC India Limited. Such license shall be obtained within 45 days of the commencement of the work. **“The Second bill will be passed only after producing the valid Labour License”.**

1.2 Registers/Records:

- 1.2.1 The contractor shall maintain at site Registers/Records as required statutorily and shall submit the same when called for by any Labour Enforcement Authority or any other statutory authority or by Authorities of NLC India Limited. If the contractor fails to submit the Registers/Records to the Labour Enforcement Authorities/ Authorities of NLC India Limited, the contractor's bill will not be passed.

1.2.2 The contractor shall maintain the following Registers/Records:

- a) Register of workmen in form A as per Rule 75 of the Contract Labour (R&A Rule) 1970.
- b) Muster Roll in Form D
- c) Register of wages in Form B
- d) Register of deductions / damages or loss in Form - C
- e) Register of Fines in Form C
- f) Register of Overtime in Form B
- g) Register of Advance in Form C

h) In addition, the contractor must maintain registers/ records under Mines Act, 1952 and factories act 1948 or any other statute as the case may be.

1.2.3 The Contractor shall submit without fail the half yearly return in Form XXIV to the Statutory Authorities in strict conformity with the provisions of the Contract Labour (Regulation & abolition) Act 1970 CLRA Act / Rules.

1.3 Employees Provident Fund (EPF):

1.3.1 Under section - 2 (f) of the Employees Provident Fund Miscellaneous Provisions Act 1952, and the notification No.S.35012/7/90-SS-II, dt.19.10.90 every employee in or in connection with the work of a factory or establishment which the scheme applies should be enrolled as Employees Provident Fund/Family Pension Scheme Fund member from the date of Joining the factory or Establishment. The contractor is primarily responsible for maintaining the register of employees with details of service and to admit them to the provident fund/FPS fund.

1.3.2 The recovery and remittance of EPF for the workmen engaged by the contractor shall be regulated by provisions of EPF Act and Schemes there under and circulars / instructions issued by NLC India Limited from time to time.

1.3.3 The Contractor Employers shall undertake the responsibility of remitting the contribution/subscription etc., of the contract workmen engaged by them towards EPF, ESI etc., (as applicable) and NLCIL as the principal employer, will ensure compliance under the relevant applicable statutes by verifying the remittance made by the Contractor Employers before releasing part/final bills.

1.3.4 Failure to comply with the statutory provisions shall entitle prosecution by the statutory authorities besides Penal Action against the Contractor.

1.4 Employment cards and Wage Slip.

1.4.1 Every contractor shall issue Employment cards in Form XIV as per Rule 76 of the contract labour (Regulation & Abolition) Rules 1971 with respect to the workmen engaged by him. He shall also ensure that the workmen so engaged shall carry the employment Card at their work spot and shall produce the same as and when demanded either by NLC India Limited or by statutory authorities.

1.4.2 Every contractor shall issue Wage slip in Form XIX.

1.5 The contractor should ensure and produce the following declaration along with the application for issue of identity cards to the workmen.

"Certified that the following contract workers engaged by me bear good conduct and that they are not dismissed/discharged/deserted service from NLC India Limited and also that they are not black listed by other Public Sector Undertaking/ Departments and their antecedents have been verified and found satisfactory".

"It is the Contractor's responsibility to produce age proof for the workmen engaged by him for whom entry passes are required."

Sl.No.	Name of the contract worker	Address	Identification Marks

1.6 The contractor shall engage workmen of age not less than 18 years & not more than 58 years and shall produce necessary proof for the same if called for. The proof shall be any document issued by a person / officer authorized by Government to do so. "In case of no proof or any dispute, as to correct age, the contractor shall cause the worker to be assessed for his age by a Competent Authority in District Head Quarters Government Hospital at his cost."

1.7 The Contractors, while engaging their employees / Workmen for their contracts shall give preference to those who either have Aadhar Card or agreed to apply for Aadhar Card to establish their genuineness and payments for them shall be made through Aadhar Payment Bridge, to the extent possible.

1.8 The successful contractor shall engage 50% of their contract workmen from the land displaced persons by obtaining names of such evictees who are eligible for such engagement from the Land acquisition department /NLCIL.

Before getting Entry pass/Gate Pass to the contract workmen deployed by the contractor employers, verification from the Unit HR department shall be obtained to ensure that 50% of contract workmen are from the land displaced persons, subject to their suitability.

However certain works could be exclusively reserved for project affected persons and the successful tenderer shall employ only land evictees (100%) after getting approval from User Division, where it is exclusively mentioned in the NIT.

1.9 LABOUR LAWS:

The Governing Acts as applicable and as amended shall be strictly followed. Some of such acts are given below:

1.9.1 The Workmen's Compensation Act 1923

1.9.2 The Trade Unions Act 1926

1.9.3 The Payment of Wages Act 1936

1.9.4 The Minimum Wages Act 1948

1.9.5 The Industrial Dispute Act 1947

1.9.6 The Factories Act 1948

1.9.7 The Maternity Benefit Act 1961

1.9.8 The Employees Provident Fund Act 1952

1.9.9 The Mines Act 1952

1.9.10 The Bonus Act 1965

1.9.11 The Contract Labour Regulation Act 1970–71

1.9.12 The Payment of Gratuity Act 1972

1.9.13 The Bonded Labour Act 1976

1.9.14 The Equal Remuneration Act and Rules 1976

1.9.15 The Inter state migrant workmen Act 1979

1.9.16 The Child Labour Act 1986

1.9.17 The Building and other Act 1995 Construction Works

1.10 The CLMS updation should be completed on or before 20th of every month without fail by the contractor.

1.11 Annual returns in Shram Suvitha Portal to be completed on or before 31st January every year by the contractor.

1.12 Gratuity to the eligible contract workmen / nominee to be paid on time as per NLCIL guidelines.

1.13 The contractor shall implement all the statutory provisions to workmen engaged by him to carry out the said works, especially the provisions of EPF and Misc. Provisions Act 1952 and its schemes there under. It is the responsibility of the contractor to abide by the circulars and instructions issued by NLC India Limited Management in this regard already in force and as amended from time to time. The contractor shall maintain and update statutory records and comply with all the statutory provisions under labour laws in respect of workmen engaged by him. Any contravention noted by the Statutory Authorities/ Authorities of NLC India Limited will summarily be followed by penal / legal action by the said Statutory Authorities/ Authorities of NLC India Limited.

2.0 Termination of Services of any Worker:

- 2.1 The NLC India Limited may direct the contractor to withdraw any workmen engaged by the contractor from the work spot/NLC India Limited premises if such workmen found to have conducted himself against the interest of work and interest of the NLC India Limited. Upon such direction, the workmen shall be withdrawn from the work spot / NLC India Limited premises immediately.
- 2.2 Where employment of any worker is terminated, the wages earned by him shall be paid before the expiry of the second working day from the day on which his employment is terminated.
- 2.3 The Contractor shall issue a Service Certificate in Form-XV at the time of Termination of the employment of any of his contract workman.

3.0 Engaging Supervisors:

- 3.1 The contractor/firm should engage one supervisor with Trade certificate/License Holder/ Persons with relevant experience. It shall be ensured that the supervisors have to attend duty on all the days in which scope of work is carried out by the contract workmen.
- 3.2 No Supervisor shall be engaged in more than one contract at a time and the Contractor Employer concerned shall certify to this effect in every bill. Persons of age below 18 years & more than 58 years and in the case of Mines, women shall not be engaged as supervisors. The Contractor Employer shall arrange for temporary permit and training at VTC (in case of Mines) for the supervisors, he proposed to deploy.
- 3.3 Engagement of their supervisors in work does not confer any right (to the Contractor Employer or his supervisor) for claiming any facility from NLC India Limited like housing, employment in NLC India Limited nor NLC India Limited is obliged to engage them continuously in subsequent contracts.
- 3.4 The Supervisor shall carry out all the works which are necessary for the smooth execution of works planned through the Contract workmen, which include among others the following:
 - To report at site, get instructions from field officials and ensure effective supervision.
 - To deploy contract workmen as per the allocation of works given by officials of NLC India Limited.
 - To have a watch over the contract workmen employed for the work and to carry out the works safely.
 - Monitoring of attendance of contract workmen and to keep records of attendance.
 - In case of any untoward incidents like accident, strike etc., the supervisors shall closely co-ordinate with Contractor Employer and the officials of NLC India Limited and shall ensure that the situation does not go out of control.
 - The supervisor has to ensure safety of the contract workmen including adherence to safety practices by contract workmen.
- 3.5 In case if the specified number of supervisors with Trade certificate/License Holder/Persons with relevant Experience is not engaged by the contractor on the days of work carried out, then wages of supervisor will be deducted from the bills of the contractor for the number of days not engaged.
- 3.6 The Contractor /Partner shall not act as Supervisor.

- 3.7 The attendance details of the supervisors shall be maintained with signature of supervisors countersigned by the official of NLC India Limited concerned.

E. TIME SCHEDULE AND PRICE REDUCTION CLAUSE

1.1 TIME SHCHEDULE:

The contractor shall commence the work as per the stipulation contained in LOA. The Contract shall be in operation for the period stipulated in the contract. Time shall be considered as the essence of the contract and therefore the contractor shall strictly adhere to the time schedule specified in the Contract.

- 1.2 The contractor shall have no cause of action for the delay caused in the supply of materials by NLC India Limited.

2.0 Time Extension:

- 2.1 NLCIL reserves the right to extend the period as may be needed in special circumstances.

- 2.2 As in the opinion of NLC India Limited if the completion is delayed due to any causes beyond the control of the contractor, NLC India Limited may on application by the Contractor in writing before the expiry of time limit, allow such extension of time for completion as he thinks reasonable.

3.0 PRICE REDUCTION CLAUSE (except for Regular Maintenance Contract (RMC) such as BMC/AMC)

3.1(a) FOR SUPPLY OF GOODS (OR) SERVICES

Time is the essence of the CONTRACT. In case of delay in delivery of Material(s)/Equipment(s)/ Service(s), as the case may be, then, unless such failure is due to Force Majeure or due to PURCHASER'S defaults, total contract price shall be reduced by ½% (Half percent) of the total Contract Price, per week of delay or part thereof, subject to a maximum of 5% (Five percent) of the Total Contract Price, by way of reduction in price for delay and not as penalty.

3.1(b) FOR COMPOSITE CONTRACT WORKS (Supply of Goods and Services)

Time is the essence of the CONTRACT. In case the CONTRACTOR fails to complete the works within the stipulated period, then, unless such failure is due to Force Majeure or due to PURCHASER'S defaults, the Total Contract price shall be reduced by ½% (Half percent) of the Total Contract Price per week of delay or part thereof subject to a maximum of 5% of the Total Contract Price, by way of reduction in price for delay and not as penalty.

- 3.2.** The time schedule for Delivery of Material(s)/Equipment(s)/ Service(s)/Work(s) as stipulated in the Contract shall be adhered to on the clear understanding that the Price(s) of the Material(s)/Equipment(s)/ Service(s)/Work(s) has/have been fixed with reference to the said Delivery date(s).

- 3.3** If any delay is anticipated by the Contractor in the delivery of the Material(s)/ Equipment(s)/Service(s)/Work(s) or any of them beyond the stipulated time schedule of Delivery, the CONTRACTOR shall forthwith inform PURCHASER in writing of such anticipated delay and of the steps being taken by the Contractor to remove or reduce the anticipated delay, and shall promptly keep PURCHASER informed of all subsequent developments.

- 3.4** In case of delay in delivery on the part of CONTRACTOR, the invoice value shall be reduced proportionately for the delay and payment shall be released accordingly. If

CONTRACTOR has raised the invoice for full value, then CONTRACTOR shall issue Credit Note towards the applicable Price Reduction amount.

- 3.5** In case, the CONTRACTOR does not reduce the invoice value proportionately or does not issue Credit Note as mentioned above, the PURCHASER shall release the payment to the Contractor after effecting the Price reduction or may deduct the amount so payable by CONTRACTOR from any amount falling due to the CONTRACTOR or by recovery against the Contract Performance Guarantee/ Security Deposit.
- 3.6** The Price Reduction shall be calculated on the basis of total Value of Contract excluding taxes and duties, where such taxes and duties have been shown separately in the Contract.
- 3.7** Both CONTRACTOR and PURCHASER agree that this is a genuine pre-estimate of the loss/damage which the PURCHASER would have suffered on account of delay/breach on the part of the CONTRACTOR and the said amount will be payable on demand or said amount will be adjusted from the amount payable to the CONTRACTOR without there being any proof of the actual loss/damages having been caused by such delay/breach.
- 3.8** The decision of the PURCHASER with respect to applicability of Price Reduction shall be final and binding.
- 3.9** If any financial implication arises on PURCHASER due to issuance of invoice without reduction in price or non-issuance of Credit Note, the same shall be to the account of CONTRACTOR.
- 3.10** Without prejudice to PURCHASER's rights on Price Reduction Clause hereof and to entitlement to amount accrued due to price reduction in terms thereof and in addition thereto, PURCHASER may at any time after the expiry of the stipulated date(s) of Delivery in respect of any Material(s)/Equipment(s)/Service(s)/Work(s), at its discretion, terminate in whole or part of the Contract in respect of the undelivered Material(s)/ Equipment(s)/ Service(s)/ Work(s) or any of them and either purchase such Material(s)/ Equipment(s)/ Service(s)/ Work(s) from any other available source at the risks and costs of the CONTRACTOR and recover from the CONTRACTOR any additional cost incurred by PURCHASER on such purchase, or recover from the CONTRACTOR without such purchase the difference between the market and contract price of such Material(s)/ Equipment(s)/ Service(s)/ Work(s) on the date of termination of Contract relative thereto. Provided, this shall not restrict PURCHASER's claim for damages or compensation, as the case may be, for acts of fraud, deliberate default, negligence or misconduct by the CONTRACTOR.
- 3.11** The Purchaser may, without prejudice to any method of recovery, deduct the amount of PRICE REDUCTION from any amount due to the Contractor, under this or under any other Contract awarded by the Purchaser in his /their favour.
Note: Wherever "PURCHASER" is mentioned in the above clause, the same may be read as NLCIL.

4.0 Force Majeure:

- 4.1** The conditions such as Act of God, civil commotion, strike, lock out, concerted action of workmen, sabotage, riots, revolution, flood, fire, explosion, earth quake, epidemic, piracy which are beyond the control of the parties shall constitute Force Majeure.
- 4.2** Heavy monsoon of the duration of 3 (three) days and beyond shall also constitute Force Majeure.

- 4.3 However it is the responsibility of the Contractor to inform NLC India Limited immediately of any such occurrence and subsequent normalization upon furnishing documentary evidence and seek time extension if any.
- 4.4 Such time extension will be examined and granted for the duration of Force Majeure without effecting price reduction. Any decision taken by the NLC India Limited in this regard shall be final and binding on the contractor.
- 4.5 The contractor shall not have any right or any claim whatsoever arising thereon.
- 4.6 Events covered within the scope of contract only shall constitute Force Majeure.

F. Security Deposit & Contract Agreement preparation:

1.0 Security Deposit

- 1.1 The successful tenderer should furnish security deposit before signing of contract agreement. The security deposit shall be 5% (Five percent) of the Contract value pertaining to Schedule-I (including GST). In case, the contractor has quoted freak rates, i.e, less than 75% of the Total Schedule-I Tender value, an additional Security deposit of 5% will be levied over and above the aforesaid 5% Security Deposit.
- 1.2 In the case of successful Tenderer, the Earnest money if deposited as Demand Draft/Online payment (e-payment), it shall be converted into initial Security Deposit. Further in every bill 10% (Ten percent) shall be recovered and kept towards Balance Security Deposit (BSD) until the Security Deposit becomes 5% (Five percent)/10% (Ten percent) (in case of freak rate quoting) of the Contract value pertaining to Schedule-I (including GST).
- 1.3 The Earnest Money Deposit, if furnished as Bank Guarantee, shall be discharged to the successful Tenderer within 7 days upon confirmation and acceptance of Security Deposit before the signing of the contract. If the Contractor is not willing to pay the entire Security Deposit in a single installment before signing the agreement, the above procedure of deducting the BSD in the running bills will be resorted to. However, it may be limited to 2 or 3 installments only.
- 1.4 In case of MSE, they have to remit SD in the form of Insurance Surety Bonds / Account Payee Demand Draft / Bank Guarantee (including e-Bank Guarantee) from a Commercial Bank / Online Payment in an acceptable form safeguarding the Purchaser's interest in all respects.
- 1.5 The Bank Guarantee if submitted against Security Deposit shall be subject to verification. The Bank Guarantee issued by the issuing Bank on behalf of Bidder/Contractor/ Supplier in favour of "Name of the Company" shall be in paper form as well as issued under the "Structured Financial Messaging System" (SFMS) or e-Bank Guarantee from a Commercial Bank.
- 1.6 The details of beneficiary for issue of BG under SFMS platform is furnished below:
Name of Beneficiary & its details:
Name : NLC India Limited
Unit/Area/Division : Mines Contracts Division
Beneficiary Bank : State Bank of India
Branch& Address : Block-2, Neyveli-607801
IFSC Code : SBIN0000958

For the Bank Guarantee received from the Bidder/Contractor/ Supplier in paper form and through Structured Financial Messaging System, confirmation will be received from SBI. The Bank guarantee submitted in manual mode (not verifiable through SFMS) will be summarily rejected.

In case of enhancement of contract value, value of Security Deposit is also to be increased proportionately.

1.7 Validity of SD/ASD

1.7.1 For the contracts where the defect liability period is not applicable:

The SD shall be kept valid upto the finalization of the agreement or upto the period of six months from the actual date of completion whichever is earlier, provided there is no liability on the part of the contractor.

1.7.2 For the contracts where the defect liability period is applicable (Not applicable for pure Labour Supply Contracts)

The SD shall be kept valid upto completion of defect liability period plus 2 months.

1.8 The Security Deposit shall not bear any interest.

1.9 NLC India Limited shall be entitled to forfeit / adjust any dues from the Contractor against the Security deposit, in the event of non-fulfillment of any of the stipulations in the contract by the contractor.

1.10 If the Contract period is extended at the request of NLC India Limited, the Contractor need not deposit Additional Security Deposit (ASD) for the revised value of the contract consequent to the said enhancement and the SD furnished by the contractor shall be retained as per the terms of the contract. After completion of six months, the value of SD can be reduced to 5% of the value of the enhanced portion of Schedule-I only (including GST) and such SD shall be kept valid till the finalization of the contract or six months from the actual date of completion, whichever is earlier, provided there is no liability on the part of the contractor.

2.0 Contract Agreement preparation:

2.1 The contract agreement shall be signed before claiming first payment or within 60 days from the date of LOA.

2.2 The tenderer shall prepare two originals of contract document (as per the format given) for signing the contract agreement. After signing the contract, one original will be retained by NLC India Limited, whereupon the contractor shall, within 7 days make nine true copies of the contract documents and submit to NLC India Limited, free of charge.

G. SAFETY CONDITIONS:

1.1 Vocational Training:

1.1.1 The contractor shall engage only those persons(workmen/Supervisors) who have Completed their initial training at the Vocational Training Center/Mine-I, with proof thereof / or shall arrange to get the workmen/Supervisor trained in VTC as per the rules, before being inducted for works in Mines. The wages for the period of training in the VTC shall be paid to the workmen by the contractor. A fine as decided by the Official of NLC India Limited shall be imposed for any violation of this clause.

1.1.2 The contractor shall submit the list of workmen to be trained at VTC, for the actual requirement of workmen in that particular work.

- 1.1.3 If the contractor does not deploy the persons to whom initial vocational training was given for a particular work at NLCIL VTC based on the request of the contractor, on the intimation of the User Division and recommendation by the concerned Unit Head, an amount of Rs. 15,000/- (Rupees Fifteen thousand only) incurred per head by NLCIL towards VTC Training at NLCIL, will be recovered from the Contractor's bills for the persons not deployed by the Contractor in the concerned work, after undergoing VTC training.
- 1.1.4 In addition to the above, the Vocational training certificate issued to the contract workmen who have not reported at site within 30 days of commencement of work will be cancelled by the issuing authority VTC, on receipt of information from the Division Head.
- 1.1.5 In this regard, VTC will inform the cancellation of VTC to the Division Head and to the Unit HR departments for informing the contractor and individual worker. Such persons for whom VTC has been cancelled will not be considered for undergoing training at GVTC/Mine-I again for two years.
- 1.1.6 The provision made in the schedule-II towards the payment to be made for workmen/Supervisors for the refresher training only will be released at the end of the month on completing the refresher training and on production of necessary proof.
- 1.1.7 The wages for the period of training in the VTC shall be paid to the workmen/Supervisors by the contractor. A fine as decided by the Official of NLC India Limited shall be imposed for any violation of this clause.
- 1.2 INITIAL / PERIODICAL MEDICAL EXAMINATION (IME/PME):** The contractor must arrange to conduct Initial Medical Examination / Periodical Medical Examination (IME/PME) for all the persons deployed by him for working in the Mines, as per the Mines Act at Industrial Medical Centre of NLC General Hospital. The expenditure towards the IME/PME incurred will be reimbursed to the Contractor by NLC India Limited. The frequency of PME will be once in three years for persons above 45 years of age and 5 years for those below 45 years of age. The persons who are due for undergoing PME will be informed to the Contractor by the Concerned Unit Head. The Contractor should treat the period of medical examination as "ON DUTY" and also he must ensure that every person deployed by him is issued with a Card stating the name of the Contractor, the name of the work, period of work, status of VTC and IME/PME.
- 1.3 INSURANCE:**
- 1.3.1 The Contractor should take Group Insurance cover against all risks and furnish a Photocopy of the insurance policy along with the first monthly bill, failing which all further payments shall be withheld. NLC India Limited shall not be responsible for any loss/damage/injury caused to any property, man power.
- 1.3.2 The contractor shall however follow with the Underwriter and settle the claims, if any.
- 1.3.3 The Insurance policy shall be kept valid by due payment of premium even in the event of time extension granted.
- 1.4 DEATH RELIEF FUND:**
- 1.4.1 The "Death Relief Fund Scheme" is operated through Contract Workmen Trust for payment of Solatium to the dependants of Contract Workmen who die in harness due to Industrial accidents arising out of and in the course of employment or due to any other cause, within the precincts of employment.
- 1.4.2 **Scope and coverage:**

Covers all Contract Workmen/Supervisors(except workmen/ Supervisors engaged by Contractors of Projects under Construction inside or outside Neyveli, OB Outsourcing) engaged by Contractor Employers for works in NLCIL through different modes of Contract viz. AMC/ Non-AMC/ Short Term/ Indcoserve/ Howsicos/ OEM/ Turnkey/ Outsourcing, etc.

1.4.3 Contribution to the Fund:

- Monthly Contribution deducted from Contract workmen: Rs. 25/-.
- Equal monthly contribution to the fund per contract workman by the Principal Employer (NLCIL): Rs. 25/-.

Contribution of Contractor Employers: 0.2% of the total contract bill amount (before deducting the statutory/non-statutory items).

1.4.4 Monthly contributions to the Death Relief Fund of Contract Workmen shall be deducted by the Contractor employers concerned @ Rs. 25/- from every contract workmen engaged by contractor employer for works in NLCIL from their salary/wages payable. In order to facilitate this, necessary deduction will be made from the bills of the Contractor employers based on Form-D (Attendance Register) and Form-B (Wage Register) by the respective Accounts, based on the input provided by the concerned HR Department.

The Contribution of the Contract workmen and the Principal employer shall be deposited by the Accounts Centre Concerned to the Corpus fund of Contract Workmen Trust, on monthly basis.

1.5 OTHER SAFETY CONDITIONS:

1.5.1 It shall be the duty of every contractor to see that all persons engaged by him for work, in Mines does the work allotted to him strictly as per the provisions of the Mines act, Rules Regulations and orders made there under. The contractor shall be responsible and answerable for any violation of the statutory provision by any of the persons engaged by him .

1.5.2 Adequate and suitable safety measures for all his workmen and Supervisors engaged shall be provided by the Contractors.

1.5.3 All Statutory norms and safety measures shall be strictly followed.

1.5.4 The contractor employer shall supply safety appliances with quality standards as per relevant clauses in the presence of NLCIL officials with acknowledgement and shall be certified in the bill proforma by the division, executing the contract.

1.5.5 All the equipment for safety will be of ISI standard and safety gadgets etc. shall be periodically checked towards their fitness for use. The life of the footwear / Safety shoes is to be considered as six months.

1.5.6 The contractor shall ensure the safety of his workmen and Supervisors against accidents and injuries while at work as required by the relevant rules.

1.5.7 In case of accident to workmen or supervisor, the Contractor shall take them to the General Hospital run by NLC India Limited along with the Accident Report.

1.5.8 It shall be the obligation of the contractor to pay compensation as per workmen compensation Act and to extend co-operation to the officers in any enquiry conducted thereon. No responsibility shall rest with NLC India Limited in this regard.

1.5.9 The contractor shall deploy only valid licensed holders for the operation of their vehicles and have their vehicles (Tippers, Lorries and tractor trailer) tested in Mini Auto of NLC India Limited for their fitness and get written permission from the

Manager/Mines and Security to ply their vehicles in the Mine's prohibited area. The Contractor has to ensure that the licenses are renewed in time. The tippers/ Lorries/ Tractors and Trailers engaged by the contractor must be fitted with audio-visual sirens and also got tested at Mini Auto/Mines to this effect. The vehicles used by the contractors/suppliers must have valid emission test certificate issued by the Authorised agency.

- 1.5.10 They shall also have their vehicles checked by outside Agency, if directed by NLC India Limited authority.
- 1.5.11 No men shall be allowed to travel in the tipper/lorry or tractor trailer either with or without load in the Mines prohibited area except the driver and the cleaner and the persons not exceeding limit as prescribed in the Motor Vehicle Act.
- 1.5.12 No contractor's vehicle shall be permitted to enter the Mines from 06.00 p.m.to 6.00 a.m without specific permission from the Manager/Mines and Security.
- 1.5.13 No vehicle shall be loaded above the prescribed capacity.
- 1.5.14 No bullock or other animal drawn vehicles shall be allowed inside the Mines area. Only Lorries, tippers or such power driven vehicles shall be used for the conveyance of materials.
- 1.5.15 If any contractor or workmen or supervisor of a Contractor is found not observing safety precautions and in unsafe acts, minimum fine of Rs.5000.00 (Rs. Five thousand) per violation will be imposed on the Contractor and will be recovered from the Bill.

1.6 The followings will be treated as not observing safety precautions:

- 1.6.1 Persons working at height of 1.8 Mtrs. and above without safety belts, Gum Boots / Shoes and helmets.
- 1.6.2 Welders doing welding and cutting works without proper Gloves in both hands, Goggles / Welding Shield and shoes.
- 1.6.3 Persons working without helmets and shoes, proper foot protection.
- 1.6.4 Persons traveling on Crane hooks or side mud guard of the tractors.
- 1.6.5 Persons found pilfering and causing damage to fire fighting appliances or fire hydrant valves.
- 1.6.6 Unauthorized tapping of Electricity such as disturbing Electric Fuse, inserting of leads directly on the Plug sockets, improper wiring and improper use of Electrical equipments belonging to the NLC India Limited or other Contractors.
- 1.6.7 It is the duty of the Contractor or the Supervisor employed by the contractor at site to ensure that all their workmen wear all the necessary safety gadgets / equipments and carry out their work in a safe and perfect manner.
- 1.6.8 Violation of condition of safety may lead to termination of the Contract at any time.

1.7 ADDITIONAL SAFTEY CONDITIONS:

- 1.7.1 The contractor shall prepare written Safe Operating Procedures (SOP) for the work to be carried out, including an assessment of risk and safe methods to deal with it. The copies of the SOP should be provided to the Supervisor(s) of the work or to the person(s) designated by the NLC India Limited Management. The SOP shall be updated as and when required and the same shall be handed over to the person(s) designated above.

- 1.7.2 Ensure that all work is carried out in accordance with the statute and SOP. Deploy adequately qualified and competent personnel for carrying out the job in a safe manner. For every work carried out by the Contractor prepare and provide to the Mine Owner site specific Code of Practice.
- 1.7.3(a) The Contractor engaging persons in food handling should undergo routine stool examination once in every six months and sputum for AFB and chest radiograph once in a year, at Industrial Medical Centre of NLC General Hospital. The expenditure towards the above medical examination will be reimbursed by NLC India Limited.
- 1.7.3(b) The Contractor engaging persons in Driving/HEMM Operation jobs should undergo eye refraction test at least once in a year at Industrial Medical Centre of NLC General Hospital. The expenditure towards above medical examination will be reimbursed by NLC India Limited.
- 1.7.4 The Contractor shall submit to DGMS, returns indicating – Name of his firm, Registration Number, Name and Address of person heading the firm, Nature of Work, type of deployment of work persons, Number of work persons deployed, vocational training and medical examinations and coverage given to the work persons. The returns shall be submitted quarterly to DGMS with a copy to the Mine Management.
- 1.7.5 Apart from the above, as per the Coal Mines Regulations 1957, no person shall go into, work or be allowed to go into or work in a Mine, unless he wears a protective footwear and helmet as approved by the Director General of Mine Safety. Hence, the following conditions shall also be adhered to:
- 1.7.5(a) No person belonging to the Contractor shall go into, or work or be allowed to go into, or work in the mine unless he wears a protective footwear of such type as may be approved by the Directorate General of Mine Safety.
- 1.7.5(b) The Protective footwear referred to in the clause 1.7.5(a) shall be supplied at intervals not exceeding six months by the contractor and he shall at all time maintain sufficient stock to ensure immediate supply as and when need for the same arises.
- 1.7.5(c) No person shall belonging to the contractor shall go into, or work or be allowed to go into or work in, a mine unless he wears a helmet of such type as may be approved by the Directorate General of Mine Safety.
- 1.7.5(d) When a helmet provided as per clause 1.7.5(c) is accidentally damaged during legitimate use, the contractor shall replace the damaged helmet free of cost.
- 1.7.5(e) All person or a class of person employed by the contractor in a Mine exposed to undue hazard by reason of the nature of his employment, the contractor shall supply to such person or class of persons free of charge, gloves, goggles, shingaurds, reusable earplugs, dust respirators, visibility harness or such other protective equipment.
- 1.7.5(f) The contractor is also required to ensure that the persons provided with protective equipment shall use the same while on work.
- 1.7.5(g) The contractor shall maintain registers for the issue of the protective equipment duly with signatures of the workmen and Supervisors, as a token of receipt. The register shall be placed before the Concerned Division head during claiming the bills. The Bills for issue of PPE shall be reimbursed to the contractor only after due verification by the Concerned Division Head.
- 1.7.5(h) If any Contractor or supervisor or workmen failing to adhere to the above safety precautions will be imposed a minimum fine of Rs. 5000/- (Rupees Five thousand) per

violation and will be recovered from the bill. Violation of conditions of safety may even lead to termination of the contract at any time.

1.8 SPECIAL SAFETY INSTRUCTIONS:

- 1.8.1 Smoking and carrying lighter or match box are prohibited.
- 1.8.2 Any switch provided with danger board/tag shall not be tampered.
- 1.8.3 Crossing, setting, chatting in between railway tracks wagons are strictly prohibited.
- 1.8.4 Line Clear shall be obtained before commencing the work in the equipments installed.
- 1.8.5 Loose clothes shall not be worn at all.

H. PAYMENT TERMS:

- 1.1 The Contractor shall prepare the bill based on the item rates agreed and in the Contract.
- 1.2 All payments shall be made by e-payment only.
- 1.3 Payment will be made for the quantum of work executed, after deducting Income Tax and statutory levies, as applicable.
- 1.4 In case of AMCs/BMCs the Payment will be made on monthly basis against bills raised by the Contractor. However, in case of works other than AMCs/BMCs payment will be made as and when the contractor submits the bills .
- 1.5 The Contractor shall submit along with the bill, the Attendance particulars of the Labourers engaged on a daily basis with due certificate from the Executive-in-charge of NLCIL.
- 1.6 The payment will be made within 7 (Seven) days after submission of the bills, with all required documents.
- 1.7 The number of bills including the final bill will be restricted to the number of months for which the contract is being executed.
- 1.8 Any item of work not covered under the schedule of quantities shall be paid extra at the rate worked out on the basis of the rates quoted for other items or otherwise negotiated which must be determined before executing such items of work.
- 1.9.1 Conditional discounts for early inspection/payment etc., will not be considered.

2.0 Procedure for release of payment to the Contractor for running Bills.

- 2.1 The contractor shall submit the Bill along with all required documents for running Bills, to the Executive in-charge of the work.
- 2.2 The Executive on verification of the Bill will submit the same to the Divisional Head for making pass orders.
- 2.3 The Bills duly passed by the Divisional Head will be sent to the Accounts Centre concerned.
- 2.4 Accounts Centre after checking the Bill, will release the payment to the Contractor.

3.0 Procedure for release of payment to the Contractor for Final Bills.

- 3.1 For claiming Final Bill, the work should have been completed in all respects as per the Terms and Conditions of the Contract.
- 3.2 Final payment will be made within 60 days after submission of all documents as mentioned below.
 - 1. Bill form for final bill with measurement acceptance.
 - 2. Final bill EPF clearance from HR department
 - 3. Final IR clearance from HR department
 - 4. Wage disbursement details
 - 5. Arrear payment details-consolidated statement

6. Bonus payment details
7. Supervisor payment details- consolidated statement
8. Documentary proof for safety appliances & Group insurance.
9. TA clearance certificate
10. Penalty / recovery details if any
11. Letter of undertaking for finalized value and compliance of statutory obligations.

4.0 The Contractor shall furnish clearance certificate from the TA department of NLC India Limited along with final bill or as instructed for having cleared rent arrears for the quarters allotted to him. Even if no quarters is allotted a NIL certificate shall be produced.

5.0 Tax Deduction at Source (TDS):

- 5.1 Income tax: TDS towards Income Tax will be deducted at such rates from the bills payable to the contractor as per the prevailing Statutory Rules.
- 5.2 Tax deduction at source will be made for other statutory levies as per law.
- 5.3 The contractor should indicate the GST Registration Number (GSTIN) in Bidder details form.
- 5.4 The Contractor should indicate the Permanent Account Number(PAN) allotted to him by the Income Tax Department.

I. ADDITIONAL CONDITIONS

1.0 Discharge / Completion of Contract: The contract will be deemed to have been completed after satisfactory fulfillment of all the obligations as per contract documents, final bills paid and release of Security deposit. However if any claim arises in respect of the obligations in connections with the contract, the contractor has to settle the claim.

2.0 LIMITATION OF LIABILITIES:

2.1 Except in case of criminal negligence or Willful misconduct

The Contractor shall not be liable to the Purchaser, whether in contract, tort or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the contractor to pay liquidated damages to the Purchaser.

and

The aggregate liability of the contractor to the Purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to any obligation of the contractor to indemnify the Purchaser with respect to patent infringement.

3.0 TERMINATION OF CONTRACT:

The Contract will be terminated , if the contractor fails to comply with any of the terms and conditions of the contract or fails to commence the work or if the performance is found to be unsatisfactory, even after issue of due Notice. In such a case, the Contractor shall not have any claim for any compensation. The EMD/Security Deposit shall be forfeited. The balance work will be executed by NLCIL by other means at the risk and cost of the Contractor.

4.0 SHORT CLOSING:

The Contract may be short closed by NLC India Limited at any time during the contract period due to special circumstances after due notification without any claim for loss/damages by the contractor on NLC India Limited. Payment due to the contractor for the works done by him till such short closure will be made based on the awarded rate.

J. OTHER CONDITIONS

1.0 PENAL ACTIONS:

1.1 Suspension: If the performance of any contractor is found to be unsatisfactory or if the conduct is under suspicion or in the event of any breach of the conditions committed by the contractor or his collaborator/ associate/ agent, will lead to suspension of the contractor.

Suspension shall be for a period of 6(six) months.

1.2 Banning for one (1) year: Supplying defective/ poor quality materials or Performing substandard works and failure to rectify/replace the same even after reasonable extension is given to the contractor will lead to Banning for one (1)year.

1.3 Banning for two (2) years: Any of the following acts will lead to Banning of a Bidder/Contractor for TWO (2) years.

1.3.1 Formation of cartel with other contractors with a view to artificially hike the prices.

1.3.2 Willful suppression of facts or furnishing of wrong information or manipulated/ forged documents or using other illegal/ unfair means.

1.3.3 If the contractors are found guilty involving in malpractices like Bribery, Corruption etc. or are convicted for offences involving moral turpitude in relation to business dealings or security considerations including loyalty to the State or Country or the Contractor continuously refuses to return NLCIL dues without showing adequate cause and the NLC India Limited is satisfied that this is not due to a reasonable dispute which would attract proceeding in Arbitration or Court of Law.

1.3.4 If the bidder withdraws/ modifies/ impairs/ derogates his offer on his own after tenders are opened or fails to accept the LOA/ fails to submit CPG/SD.

1.4 Any firm which is placed under Suspension/Banning by NLCIL will not be allowed to participate in any tender issued on or after the date of suspension/banning order and also if that firm has already participated in any tender, which is under process their bid will not be considered for further processing.

2.0 Penalisation for Non- Payment of Wages:

2.1 The contractor shall pay the wages to the contract workers as per the terms and conditions of the agreement.

2.2 For Nonpayment of wages by the contractor, the following actions will be taken.

2.2.1 Recovery of an amount as a penalty equal to 10% of the total wage bill of the contract workmen against every such payment made through HR Department from the bills payable for the contractor.

2.2.2 Termination of the contract agreement with Forfeiture of Security Deposit amount, after due notice, in case the contractor fails to comply with the above provision in the same agreement period for the second time.

2.2.3 If the contractor fails to make payment of wages in two agreements or more in the same unit or twice in the same agreement in a particular year, the same shall be viewed seriously with all penal consequences, including banning upto two years after due notice.

2.2.4 In the event of failure of Contractor in disbursing the wages/statutory payments of the Contract workmen, as per the terms and conditions of the Tender/LOA/Agreement, to ensure uninterrupted execution of work to sustain the production of Mines, without prejudice to the right of initiating action to terminate the contract, by deeming such failure as Breach of Contract, NLC India Limited at its discretion is entitled to entrust the said work either in full or in part, to some other agency / Contractor either on nomination basis or through re-tender or combination of both as the case may be at the risk and cost of the Contractor.

3.0 Dispute Resolution:

The successful Bidder only can invoke conciliation / arbitration, that too only after award of contract. Other Bidders cannot invoke conciliation / arbitration at any stage.

I) Informal Dispute Resolution:

The Parties agree to use reasonable efforts to resolve all disputes equitably and in good faith. If any dispute between the Contractor and NLC India Limited arises, it shall in the first instance be referred in writing to NLC India Limited, who shall endeavor to resolve the dispute amicably and render a decision within 30 days. The period of 30 days shall be reckoned from the date of receipt of intimation of the dispute by the NLC India Limited.

Save as hereinafter provided, in respect of a dispute so referred, the decision of the NLC India Limited shall be final and binding upon the Parties until the completion of the Contract and shall forthwith be given effect to by the contractor who shall proceed with the contract with all due diligence. Whether or not either party has sought conciliation/arbitration of the dispute as hereinafter provided.

For CPSEs and Government Departments/ Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments):

If an amicable settlement could not be reached then all the disputes/differences shall be settled as per Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD) as mentioned in DPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018 for CPSEs and Government Departments/ Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments).

For Other Contractors:

II) Conciliation:

- 1)** If the party is dissatisfied with the decision rendered by NLC India Limited, or if NLC India Limited omits or declines to render a decision within the said period of 30 days, then within a further period of 30 days, the dissatisfied party shall require by a notification that the dispute be referred to conciliation in the manner as per the 'NLC Conciliation Rules', copy of which is available with the offices of NLC India Limited and the Bidders/Contractors shall abide by the NLC Conciliation Rules' for resolving any dispute arising out of this contract. Such a notification shall be in writing and it shall be duly served on the other party. Failure to invoke the conciliation within the time stipulated shall debar the party from seeking reference to conciliation.
- 2)** Except as otherwise provided in this clause, any dispute arising out of or relating to this agreement, or the breach, termination or validity thereof, shall be settled by conciliation in accordance with 'NLC Conciliation Rules'. The Conciliation shall be held at Neyveli/Chennai/Tuticorin/ Barsingsar or in a place within India mutually agreed by the parties. The conciliation proceedings shall be conducted, and the award shall be rendered in English. The award shall state the reasons upon which it is based.

3) Appointment and Number of Conciliators will be as follows:

Number of Conciliators:

For the sum of Provisional Claim & Provisional Counter Claim

* Upto Rs. 3.0 Crores : One Conciliator

* More than Rs.3.0 Crores : Three Conciliators

The Provisional Claim / Counter claim amount shall be indicated by the respective parties while initiating / concurring for conciliation. However, number of conciliators in the Settlement Advisory Committee will not be modified, even if the Sum of Actual Claim and Actual Counter Claim amount vary from the sum of Provisional Claim and Counter Claim amounts.

Appointment of Conciliators:

Conciliator(s) will be appointed by CMD of NLC India Limited.

- 4) The Contract agreement/purchase order conditions and the rights and obligations of the Parties, shall remain in full force and effect during the Conciliation proceedings. Supplies and/or services under the Contract shall, if reasonably possible, continue during the Conciliation Proceedings.
- 5) For the purpose of this clause, the term 'dispute' shall include a demand or difference of any kind whatsoever, arising out of the Contract and respecting the performance of the Contract, whether during the Contract period including extensions if any, and whether before or after termination, abandonment or breach of the Contract. (except as to any matter, the decision of which is specifically otherwise provided for in any of these conditions).
- 6) Only in case of failure to resolve the dispute through Conciliation, Arbitration can be resorted to.
- 7) Once the settlement agreement is signed with respect to a dispute, the same dispute is not subject to further appeal through Arbitration or Judicial Proceedings.
- 8) Anything not found included in the 'NLC Conciliation Rules', but necessary to conduct the conciliation proceedings will be dealt with as per the provisions of the 'Arbitration and Conciliation Act 1996-Part-III' or as per the statutory provisions modified from time to time.
- 9) Setting aside the dispute to be resolved, the work shall be proceeded with.

III. ARBITRATION:

If the dispute is not resolved amicably through conciliation, then the same shall be referred to Arbitration.

1. Arbitration shall be as per Arbitration and Conciliation Act 1996, which shall be applicable only for the dispute(s) involving claims from 25 Lakhs to 20 Crores.
2. Dispute(s) involving claims below 25 Lakhs are subject to the jurisdiction of the respective Civil Court having jurisdiction over the place of works / supply / service. Dispute(s) involving claims above 20 Crores are subject to the exclusive jurisdiction of the Court situated at Chennai.
3. Setting aside the dispute to be resolved, the work shall be proceeded with.
4. For the sum of Provisional Claim & Provisional Counter Claim:
Upto Rs. 3.0 Crores : One Arbitrator
More than Rs.3.0 Crores: Three Arbitrators

5. The Provisional Claim / Counter claim amount shall be indicated by the respective parties while initiating / concurring for Arbitration.
6. However, number of Arbitrators will not be modified, even if the Sum of Actual Claim and Actual Counter Claim amount vary from the sum of Provisional Claim and Counter Claim amounts.
7. The Sole Arbitrator to be appointed for the dispute with sum of Provisional Claim & Provisional Counter Claim upto Rs.3.0 crores, will be appointed by NLCIL.
8. For the disputes with sum of Provisional Claim & Provisional Counter Claim more than Rs.3.0 crores: The Arbitration shall be conducted by 3 (Three) Arbitrators, one each nominated by each party and the third arbitrator appointed by both the arbitrators.
9. The Arbitration shall be conducted in accordance with the provisions of Arbitration and Conciliation Act 1996 and its Amendments, if any, issued from time to time.
10. The Venue of the Arbitration shall be Chennai or Neyveli.
11. The Arbitrators shall publish a speaking award which shall be binding on both the parties. The party in whose favour the award is passed, shall be entitled to recover the entire costs of arbitration from the other party. The arbitrators shall indicate the above clearly, in their award.
12. In case of Conciliation /Arbitration invoked with respect to certain disputes, payment to the contractor can be released for the items which are not under the referred Conciliation / Arbitration.

4.0 Legal Jurisdiction: Courts having jurisdiction over Neyveli shall have the ordinary jurisdiction as per Law.

K. Details of Tender schedule, Payment and Reimbursement of wages & Allowances, Revision in rate of wages/DA:

1.0 TENDER SCHEDULE DETAILS

- 1.1 The tender schedule (Price Schedule) is bifurcated into two parts, Schedule-I & Schedule- II. **Tender quoting is applicable for Schedule-I only. Schedule-II is not subject to quoting.**
- 1.2 **Schedule-I** contains the total value of work items. The unit rate of each item of works contained in the Schedule-I is arrived by adopting the rate of wages shown in **Annexure VII** as announced by HR Dept. for the various categories of labour.
- 1.3 **Schedule II**, generally contains the total value of all provisions as detailed below:
 1. Supervisory Wages (Rate of wages + Dearness Allowance)
 2. Dearness Allowance (DA) for the estimated man shift for Workmen.
 3. PF Component of Total wages (Rate of wages + DA) for the estimated man shift, for the respective category of Workmen and Supervisor(s) to be engaged.
 4. Safety appliances (SA) for the Total wages for the estimated man shift, for the respective category of Workmen and Supervisor(s).
 5. Accident Compensation (AC) (Group Insurance Charges) for the Total wages for the estimated man shift, for the respective category of Workmen and Supervisor(s).
 6. VOCATIONAL TRAINING CENTRE (VTC) Charges for Workmen and Supervisor(s).
 7. BONUS for Workmen and Supervisor(s).
 8. P.H. WAGES for Workmen and Supervisor(s).
 9. Annual Leave with wages (ALW) for Workmen and Supervisor(s).*

10. PF on Annual Leave with wages (ALW) for Workmen and Supervisor(s).*
11. Canteen Allowance for Workmen. **
12. Conveyance Allowance for Workmen. **
13. Washing Allowance for Workmen. **
14. Housing Assistance for Workmen. **

* - Annual Leave with Wages (ALW) and PF on ALW is not applicable for Short Term Contracts and Other Contracts like hiring of vehicles, all turnkey contracts, OEM Contracts and NAMC Contracts executed outside Neyveli limits.

** 1. Applicable only for contract workmen who have put in one or more years of service cumulatively, subject to fulfillment of prescribed conditions.

2. Canteen Allowance, Conveyance Allowance, Washing Allowance and Housing Assistance are not applicable for Turnkey, OEM, Short Term, OBOS, Outsourced Contracts and hiring of vehicles.

1.4 The amount shown against each provision in Schedule-II (i.e. "Supervisor Wages, DA for Workmen, PF, SA, AC, VTC charges, BONUS, PH wages, ALW(if applicable), PF on ALW(if applicable), Canteen Allowance(if applicable), Conveyance Allowance(if applicable), Washing Allowance(if applicable) and Housing Assistance(if applicable)" is the total value of the provision of all the categories of workmen and/or Supervisor(s) to be engaged for the work.

2.0 LOA Value :

Generally, the LOA Value shall be arrived by adding the following values.

- i. The bidder's offered percentage during initial bidding or after reverse Auction, wherever applicable/ price Justification, if any, multiplied with the total value mentioned in schedule-I
- and
- ii. The total value of provisions in schedule-II.

3.0 Details of wages and Allowances are given in Annexure-VII.

4.0 PAYMENT OF WAGES, STATUTORY COMPONENTS & ALLOWANCES FOR WORKMEN & SUPERVISORS:

- 4.1 As per the provisions under chapter VI of the Central Contract Labour (Regulation and abolition) Rules 1971, the contractors should observe the following rules strictly regarding the payment of wages to the contract workmen and Supervisors.
- 4.2 Wages of every worker notified by the management from time to time shall be paid within 3 days from the end of the wage period in case the wage period is one week or fortnight and in all other cases before the expiry of the seventh day from the end of the wage period.
- 4.3 Wages shall be paid without any kind except those specified by the State Government by General Order in this behalf or permissible under the payment of wages Act. 1936. The clarifications / Circulars / Instructions issued by NLC India Limited from time to time in this regard shall be strictly adhered to.
- 4.4 A notice showing the wage period and the place and time for disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Principal employer (NLC India Limited) and Labour Enforcement Officer (Central) Pondicherry.

4.5 Wages:

4.5.1 For USK, SSK, SK and HSK category workmen:

The Contractor shall ensure that each workmen employed by him is paid not less than the rate of wages along with DA shown in **Annexure-VII** for the scheduled employment communicated by HR department from time to time.

4.5.2 FOR SUPERVISORS

The contractor has to pay wages to the supervisor engaged by them not less than the wages at the level of SSK/USK supervisory, notified by the Government under minimum wages act from time to time as announced by HR department.

4.6 PF & Other Payments: The Contractor Employer has to remit/pay the Statutory Components viz. PF, Safety Appliances, Accident Compensation, VTC, Bonus, PH wages and Annual Leave with Wages (ALW) (if applicable) and PF for ALW (if applicable), based on total Wages as shown in Annexure-VII or wages applicable from time to time and on actual attendance of the workmen/Supervisors engaged by them.

4.7 PF: The remittance of PF in respect of workmen/Supervisors engaged by the Contractor Employers shall be made in their own PF Code Account and produce the proof of remittance of PF to unit HR for clearance of Bills.

Further, EDLI contribution shall be remitted @ 0.5% limited to monthly pay of Rs.15,000/-.

4.8 Bonus:

4.8.1 "The Contractor shall ensure payment of minimum bonus of 8.33% of the annual wages to the contract workmen and Supervisors engaged by them subject to the wages ceiling as provided under Payment of Bonus Act 1965 amended from time to time and failure in this regard will be treated as violation of the terms of the contract".

4.8.2 Further, the Government of India vide its gazette notification dated 01.01.2016 has notified the following amendments to the Payment of Bonus Act 1965 in section 12 of the principal Act: "For the words 'three thousand and five hundred rupees' at both the places where they occur, the words 'seven thousand rupees or the minimum wages for the scheduled employment, as fixed by the appropriate Government, whichever is higher' shall respectively be substituted, under sec.12 of the said Act."

4.8.3 The payment towards Bonus will be released on production of proof for having made payment and shall be restricted to the number of workmen/Supervisors indicated in the agreement.

4.9 PAID HOLIDAY WAGES (PH wages)in respect of National, Festival and Special Holidays:

4.9.1 Sec. 3- Grant of National, Festival and Special Holidays

Every workman and Supervisor shall be allowed in each calendar year a holiday of one whole day on the 26th January, the 1st May, the 15th August and the 2nd October and five other holidays each of one whole day for such festivals.

4.9.2 Sec. 5- Wages

Every workman and Supervisor shall be paid wages for each of the holidays allowed to him under Section-3. Such wages shall be paid along with the wages for the wage period in which such holiday falls.

- 4.9.3 Where a workman/Supervisor works on any holiday allowed under section 3, he shall, at his option, be entitled to-
- (a) twice the wages
 - or**
 - (b) wages for such day and to avail himself of a substituted holiday with wages on one of the three days immediately before or after the day on which he so works.
- 4.9.4 Provided that no such workman/Supervisor shall be entitled to be paid any wages for any of the holidays allowed under section 3 other than the 26th January, the 1st May, the 15th August and the 2nd October unless he has been in the service under the contractor employer for a total period of 30 days, within a continuous period of ninety days immediately preceding such holiday.
- 4.9.5 The contractor shall be responsible for payment of wages of not less than nine days towards paid holidays in a calendar year. PH wages shall be the rate of wages payable along with DA as shown in Annexure-VII applicable from time to time.

4.10 ANNUAL LEAVE WITH WAGES:

The contract workmen/Supervisor engaged by the contractor (except for short term contracts and other Contracts like hiring of vehicles, All turnkey contracts and OEM contracts and NAMC contract executed outside Neyveli limits) for a period of 240 days or more during a calendar year shall be allowed Annual leave with wages during the subsequent calendar year, for the number of days calculated at the rate of one day for every twenty days of the work performed by them during the previous calendar year subject to a maximum of 15 days per annum. On obtaining HR clearance on Leave Account statement for the contract workmen/Supervisor, leave wages shall be paid to the concerned contract workman/Supervisor, by the contractor and the same shall be claimed through part/final bill. The leave wages along with PF (applicable percentage from time to time) alone can be claimed by the contractor based on documentary evidence without applying the tender quoted percentage and the same will be paid by NLC India Limited after due verification subject to provisions made in the Schedule-II. The leave wages shall be the rate of wages along with DA shown in Annexure-VII. ALW is applicable only for Non-AMC works only.

Annual Leave with wages may be calculated for Non-AMC workmen of one year or less than one year duration as per Sec.79 (2) of The Factories Act,1948/Sec.52(3)(b) of Mines Act, 1952.

4.11 ALLOWANCES (Not applicable for Short term/OEM/Turnkey/OBOS/Outsourced contracts/Hiring of vehicles):

- 4.11.1 The contractor has to pay the washing allowance, Housing assistance, canteen allowance and conveyance allowance as shown in Annexure-VII to the eligible contract workmen along with wages payable. The above allowances shall be restricted to the provisions made in schedule-II.
- 4.11.2 For payment of Washing Allowance and Housing Assistance, 10 Days physical presence is required in a month. The days of VTC, PME and Disability leave on account of industrial accidents shall be treated as physical presence.
- 4.11.3 Canteen Allowance and Conveyance Allowance are applicable only for physical presence on per diem basis. These are not applicable on the days of availing ALW and PH by the concerned contract workman.

- 4.11.4 Washing allowance, Housing Assistance, Canteen Allowance and Conveyance Allowance are not applicable for Turnkey, OEM, Short Term, OBOS, Outsourced contractors and hiring of vehicles. In other words the above allowances are applicable for Non-AMC works only.
- 4.11.5 The payment of the above allowances shall be restricted to the provisions made in schedule-II.

5.0 OT WAGES

The contractor shall not deploy a workman for more than one shift in a day as the rates and conditions prescribed in this tender are only for one shift. If the Contractor engages workmen more than one shift in a day, necessary prior approval is to be obtained and in such cases the register of Overtime and all other statutory requirements are to be maintained and the legal obligation is to be fulfilled. OT wages shall be the rate of wages payable for each category along with DA shown in Annexure-VII.

6.0 Miscellaneous Payment:

If there is any instruction from NLC India Limited to make any special payments like exgratia, gift, award etc., to the contract workmen, the same shall be complied with without fail. For such payments suitable instructions on the modality of claim will be communicated by NLC India Limited.

7.0 Payment procedure:

- 7.1** All the payments including wages payable by the Contractor to the workmen and Supervisors shall be made only through bank account maintained by the workmen/Supervisor. Contractor shall submit Form B to the site authorities containing a certification by the contractor that, the payments indicated in the Form B have been duly paid through bank into the respective accounts of his/ their workmen/Supervisors. Contractor shall also submit necessary authenticated proof received from concerned banks as proof for such payment of wages to the workmen/Supervisors.
- 7.2** The authorised representative of the principal employer shall record in Form B certifying that, the amount has been paid and credited into the bank account of workmen/Supervisors concerned as confirmed by the contract workman/Supervisors.

8.0 Reimbursement of Schedule-II Provisions to the Contractors:

- 8.1** During the course of execution of contract, Payment/Remittances towards the applicable Schedule-II provisions (refer Check list-2), made by the contractor to the workmen & Supervisors, will be reimbursed by NLCIL, after due verification and without tender quoted percentage (+) or (-), subject to the ceiling of the amount provided against each provisions. Payment records shall be produced by the Contractor Employer for verification by officials of NLC India Limited.
- 8.2** Payment of **Supervisory Wages (Inclusive of DA)** will be reimbursed to the Contractor Employer on actual attendance basis, subject to the ceiling of the Amount provided against this in Schedule-II provisions.
- 8.3** Payment of **Dearness Allowance (DA)** for workmen will be reimbursed to the Contractor Employer on actual attendance basis, subject to the ceiling of the Amount provided against this in Schedule-II provisions.
- 8.4** Remittance of **PF amount** for the total wages (Rate of wages + DA) will be reimbursed based on actual attendance basis, Form-D & Form-B(formerly Form-XVI & Form-XVII), subject to the ceiling of the amount provided against this in Schedule-II.

- 8.5 **Safety appliances** shall be claimed by the Contractor based on the actual expenditure, subject to the ceiling amount provided against Safety Appliances (SA) in schedule-II.
- 8.6 **Accident Compensation (Group Insurance)** shall be claimed by the Contractor based on the actual expenditure, subject to the ceiling amount provided against Accident Compensation (AC) in schedule-II.
- 8.7 **VTC charges** for the refresher training only, paid by the Contractor Employer will be reimbursed on production of necessary proof, subject to the ceiling amount provided against VTC in schedule-II.
- 8.8 The payment towards **Bonus** will be reimbursed on production of proof for having made payment and shall be restricted to the number of workmen and Supervisors indicated in the agreement.
- 8.9 Payment made towards **P.H. wages** shall be claimed at the end of the month and reimbursement will be restricted to the number of workmen and Supervisors indicated in the agreement for each category.
- 8.10 Payment made towards **Annual Leave Wages (ALW)** along with PF (if applicable) shall be claimed through part/final bill and the same will be reimbursed by NLCIL.
- 8.11 Payment made towards **Allowances** viz. canteen allowance, conveyance allowance, washing allowance and housing assistance will be reimbursed by NLCIL(if applicable), subject to the ceiling amount provided against each in schedule-II.

Washing allowance, Housing Assistance, Canteen Allowance and Conveyance Allowance are applicable for Non-AMC works only and not applicable for Turnkey, OEM, Short Term, OBOS, Outsourced contractors and hiring of vehicles.

9.0 REVISION IN RATE OF WAGES / DEARNESS ALLOWANCE (DA)

- 9.1 In case of revision in rate of wages during the tendering stage/tenure of the agreement/contract, the increase in rate of wages shall be paid by the contractor to the workmen and Supervisors, if it exceeds the rate of wages shown in Annexure VII and the same along with PF alone shall be claimed by the contractor on actual attendance basis (Form-D&B),(formerly Form-XVI&XVII) and without any tender difference (+) or (-). The same shall be paid by NLCIL after due verification, subject to ceiling in line with the condition prescribed in clause 8.1
- 9.2 In case of revision in Dearness Allowance (DA) by Government during the tendering stage/tenure of the agreement/contract, the increase in DA shall be paid by the contractor to the workmen & Supervisors and the same along with PF alone shall be claimed by the contractor on actual attendance basis(Form-D&B), (formerly Form-XVI&XVII) and without any tender difference (+) or (-). The same shall be paid by NLCIL after due verification, subject to ceiling in line with the condition prescribed in clause 8.1
- 9.3 Consequent to the above, the rates of the Tendered items (Contained in the Tender schedule) shall not be subject to change and shall remain the same throughout the period of contract including extension of time/enhancement granted if any.
- 9.4 While finalizing the agreements/contract closure, the payment made during the course of agreement towards any increase in rate of wages/DA (as applicable) than the rate of wages/DA (as applicable) shown in Annexure VII along with PF/PF on DA shall be included for arriving at the finalized value with break up details of them.
- 9.5 In case of any revision of rate of wages and allowances during the extended period and the reasons for extension of time is attributable to the contractor, the reimbursement

of wages and allowances shall not be considered for the extended/delayed period. However the contractors have to pay the revised wages and allowances to their workmen without fail.

10.0 In case of quantity enhancement/Re-appropriation during the course of execution of contract, the ceiling of the amount provided against PF, DA, PF on DA, SA and AC for workmen and Supervisors, in schedule-II provisions will be revised accordingly and as per requirement. The provisions made towards VTC, PH wages, Bonus will not be revised due to the revision of quantity because of enhancement/ re-appropriation during the course of original agreement period.

11.0 In case of quantity enhancement due to extension of time, if any, the provisions made towards PF, DA, PF on DA, SA, AC, ALW(if applicable) and PF on ALW(if applicable), BONUS, PH wages, VTC charges, Washing Allowance, Housing Assistance, Canteen Allowance, Conveyance Allowance, if applicable, will be revised accordingly and as per requirement.

12.0 Finalisation of Contracts

12.1 Finalisation shall be done within six months from the date of completion of work. In case if any contractor fails to furnish the required documents for finalizing the agreement, an ultimatum letter shall be issued to the contractor on the last known address for furnishing the same. If the Contractor does not respond even after receipt of the ultimatum, those contracts would be treated as deemed to be finalized for a value as decided by NLCIL and no further claim other than the finalized value would be entertained.

12.2 However, if the ultimatum letter issued by NLCIL, on the last known address available with NLCIL is returned, a publication in daily Newspaper will be issued, requesting to furnish the required documents. If still not responded then those contracts would be treated as deemed to be finalized for a value as decided by NLCIL and no further claim other than the finalized value would be entertained.

13.0 Undertaking-I:

I/We hereby undertake to furnish the following documents/ clearance certificates immediately on completion of works.

1. Bill form for final bill with measurement acceptance.
2. Final bill EPF clearance from HR department
3. Final IR clearance from HR department
4. Wage disbursement details
5. Arrear payment details-consolidated statement
6. Bonus payment details
7. Supervisor payment details- consolidated statement
8. Documentary proof for safety appliances & Group insurance
9. TA clearance certificate
10. Penalty / recovery details if any
11. Letter of undertaking for finalized value and compliance of statutory obligations.

14.0 Undertaking-II:

I/We hereby undertake to confirm that I/we will not indulge in any unfair labour practices viz., collecting money for employment from contract workmen/Supervisors and not to collect any amount of money from contract workers after disbursement of wages. If found indulged in any such unfair labour practices by me/us, I/We am/are liable for Banning for 2(two) years.

CHECK LIST - 2

This work does not contain schedule-II provisions (i.e., the Total Schedule-II tender value is "NIL") and hence there will not be any reimbursement of statutory payments etc., that the contractor is liable to pay to their workmen. In this regard, the following undertaking is to be given, in relevant online form, while submitting the bid, for having accepted the above condition:

Undertaking by the Tenderer:

"We hereby undertake and certify that the statutory obligations under various statutes, amended from time to time, including minimum wages specified from time to time, EPF coverage, Labour License, Group Insurance, Bonus etc., applicable for contract establishment of our company are maintained by our company for our employees, who are deputed to undertake works for Mines in NLC India Limited. We are aware that NLCIL is not liable for any reimbursement of expenses towards such statutory obligations".

ANNEXURE-VII
SHORT TERM – ABOVE GROUND OF LIGNITE MINES
DETAILS OF WAGES, DA & ALLOWANCES (W.E.F 01.10.2025)

Table-I – WAGES, DA & PF (Above Ground of Lignite Mines)

Category	Rate of wages (ROW) in Rs.	Dearness Allowance (DA) in Rs.	Total wages (ROW+ DA) in Rs.	PF on Total wages in Rs.
1	2	3	4	5
USK	350.00	191.00	541.00	70.33
SSK	437.00	237.00	674.00	87.62
SK	523.00	282.00	805.00	104.65
HSK	610.00	328.00	938.00	121.94

Table-IA- Other rates (Above Ground of Lignite Mines)

Category	Safety appliances (1.5% of Total wages) in Rs.	Accident Compensation (3.5% of Total wages) in Rs.	PH Wages (Wages+DA)	VTC (Total Wages + PF on Total wages+SA+AC)	Bonus
1	2	3	4	5	6
USK	8.12	18.94	541.00	638.38	14060.00
SSK	10.11	23.59	674.00	795.32	17517.00
SK	12.08	28.18	805.00	949.90	20922.00
HSK	14.07	32.83	938.00	1106.84	21000.00

Table-II Details of Wages & other applicable rates for Supervisors (w.e.f 01.10.2025)

Details	Above Ground of Lignite Mines
1	2
Wages (Rate of wages + DA) in Rs.	674.00
PF on Wages (in Rs.)	87.62
Safety appliances (1.5% of wages) in Rs.	10.11
Accident Compensation (3.5% of wages) in Rs.	23.59
PH wages	674.00
VTC (Wages + PF on Wages + SA + AC)	795.32
Bonus	17517.00

ANNEXURE-VII CONTD.

SHORT TERM – BELOW GROUND OF LIGNITE MINES

DETAILS OF WAGES, DA & ALLOWANCES (W.E.F 01.10.2025)

Table-I- WAGES, DA & PF (Below Ground of Lignite Mines)

Category	Rate of wages (ROW) in Rs.	Dearness Allowance (DA) in Rs.	Total wages (ROW+ DA) in Rs.	PF on Total wages in Rs.
1	2	3	4	5
USK	437.00	237.00	674.00	87.62
SSK	523.00	282.00	805.00	104.65
SK	610.00	328.00	938.00	121.94
HSK	683.00	366.00	1049.00	136.37

Table-IA- Other rates (Below Ground of Lignite Mines)

Category	Safety appliances (1.5% of Total wages) in Rs.	Accident Compensation (3.5% of Total wages) in Rs.	PH Wages (Wages+DA)	VTC (Total Wages + PF on Total wages+SA+AC)	Bonus
1	2	3	4	5	6
USK	10.11	23.59	674.00	795.32	17517.00
SSK	12.08	28.18	805.00	949.9	20922.00
SK	14.07	32.83	938.00	1106.84	21000.00
HSK	15.74	36.72	1049.00	1237.82	21000.00

Table-II Details of Wages & other applicable rates for Supervisors (w.e.f 01.10.2025)

Details	Below Ground of Lignite Mines
1	2
Wages (Rate of wages + DA) in Rs.	805.00
PF on Wages (in Rs.)	104.65
Safety appliances (1.5% of wages) in Rs.	12.08
Accident Compensation (3.5% of wages) in Rs.	28.18
PH wages	805.00
VTC (Wages + PF on Wages + SA + AC)	949.90
Bonus	20922.00

ANNEXURE-VII CONTD.

SHORT TERM –OTHER THAN MINES

DETAILS OF WAGES, DA & ALLOWANCES (W.E.F 01.10.2025)

Table-I – WAGES, DA & PF ON WAGES

Category	Rate of wages (ROW) in Rs.	Dearness Allowance (DA) in Rs.	Total wages (ROW+ DA) in Rs.	PF on Total wages in Rs.
1	2	3	4	5
USK	350.00	191.00	541.00	70.33
SSK	410.00	222.00	632.00	82.16
SK	494.00	266.00	760.00	98.80
HSK	579.00	314.00	893.00	116.09

Table-IA- Other rates

Category	Safety appliances (1.5% of Total wages) in Rs.	Accident Compensation (3.5% of Total wages) in Rs.	PH Wages (Wages+DA)	Bonus
1	2	3	4	5
USK	8.12	18.94	541.00	14060.00
SSK	9.48	22.12	632.00	16425.00
SK	11.40	26.60	760.00	19752.00
HSK	13.40	31.26	893.00	21000.00

Table-II - Details of Wages & other applicable rates for Supervisors (w.e.f 01.10.2025)

Details	Rate
1	2
Wages (Rate of wages + DA) in Rs.	632.00
PF on Wages (in Rs.)	82.16
Safety appliances (1.5% of wages) in Rs.	9.48
Accident Compensation (3.5% of wages) in Rs.	22.12
PH wages	632.00
Bonus	16425.00

FORMATS AND ANNEXURES

ANNEXURE-I
BIDDER DETAILS FORM

Sl. No.	Description	
1	NAME AND ADDRESS OF BIDDER	
2	PAN NUMBER	
3	GSTIN Number	
4	CONTACT PHONE NO	
5	CONTACT MOBILE NO	
6	CONTACT MOBILE NO (ALTERNATE NO)	
7	Email ID	
8	PARTY CODE : (If already registered with NLCIL for e-payment)	
9	Whether the Bidder possesses MSME Certificate (Udyam Registration Certificate)?	
<p>1. Any payment / refund will be made to the specified Bank Account assigned with above party code, if already allotted by NLCIL.</p> <p>2. If the Bidder is MSME Registered Bidder, scanned copy of the MSME Certificate (UDYAM Registration Certificate) is to be uploaded, irrespective of the fact that MSME is applicable or not, for this Tender.</p>		

Signature of the Bidder with seal

ANNEXURE-II

BID BANK GUARANTEE FORM

Note:-

- 01.** This Guarantee should be furnished by a Nationalised Bank /Schedule Bank, authorized by Reserve Bank of India (RBI) in the format as given below.
- 02.** This Bank Guarantee should be furnished on Stamp Paper value of Rs.80/- as per Stamp Act.
- 03.** A stamp paper should have been purchased in the name of the Bank executing the guarantee.
-

Bank Guarantee No.

Date:

Ref: Tender No.

To

**NLC India Limited,
Neyveli - 607801,
Cuddalore District,
Tamil Nadu, India**

Dear Sirs,

In accordance with your "Invitation to Bid" under your Tender No _____ dated _____ M/s / Shri _____ herein after called the Bidder, having its registered office / Head office at _____ with the following Directors on their Board of Directors / Partners of the firm.

- | | |
|----------|-----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |
| 9. _____ | 10. _____ |

wish to participate in the said bid for _____
As an irrevocable Bank Guarantee against Bid Guarantee for a sum _____ of _____ Rs _____ (in words and figures) valid for 120 (One hundred and Twenty) days from _____ (the original scheduled date of tender opening) is required to be submitted by the Bidder as a condition precedent for participation in the said bid, which amount is liable to be forfeited on the happening of any contingencies mentioned in the Bid documents, we, the _____ Bank at _____ (local address) having our Head office at _____

_____ guarantee and undertake to pay immediately on mere demand by NLC India Limited (Formerly Neyveli Lignite Corporation Limited) stating that the bid is revoked during its validity period or the prices are increased unilaterally after the bid opening or the bidder have failed to accept Letter of Award or withdraws, modifies / changes the bid proposals / refused to sign the contract in conformity with their final offer or have failed or refused to furnish CPG in prescribed _____ form the _____ amount of _____(in figure and words) without any reservation, protest, demur and recourse. Any such demand made by the Purchaser shall be conclusive and binding on the Bank irrespective of any dispute or difference raised by the Bidder.

The guarantee shall be irrevocable and shall remain valid up to _____ if any further extension of this guarantee is required the same shall be extended to such required period (not exceeding one year) on receiving instruction from M/s / Shri _____ on whose behalf this guarantee is issued

In witness whereof the Bank, through its authorised officer has set its hand and stamp on this _____day of _____at _____.

Witness:

1.

(Signature)

Name:

Designation:

Address:

Date:

(Signature)

Name in Block Letters:

Designation:

Staff code No:

(Banker's seal)

Attorney as per power of

Attorney No _____

Dated _____

2.

(Signature)

Name:

Designation:

Address:

Date:

**ANNEXURE-III
TENDER FORM**

From

To

The Executive Director/Mines
NLC India Limited
Administrative office, Block 26,
Neyveli - 607 803.
Cuddalore District, Tamil Nadu.

Tender No.:

Name of Work:

1. Having examined the Notice Inviting Tender, Techno-commercial conditions of Contract, Specifications, Tender Schedule, Time Schedule and drawing (if applicable) for the works mentioned above, we, the undersigned offer to construct, complete and maintain the whole of the said works in conformity with the said Tender conditions.
2. We undertake, if our Tender is accepted, to commence the work and to complete the whole of the works comprised in the Contract in accordance with the Time Schedule of Construction attached to the Tender.
3. We undertake to forfeit of the full value of EMD prescribed in the tender by NLC India Limited, if we do not deposit the full amount of Security Deposit specified within the time prescribed in the Tender Document.
4. We agree to abide by this Tender for the period of 90 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Unless and until a formal Contract Agreement is executed, this Tender, together with your written Letter of Award, shall constitute a binding contract between us.
6. We understand that you are not bound to accept the lower or any Tender you receive.

Place:

Date:

Signature of the Bidder with seal

**ANNEXURE-IV
DECLARATION FORM**

From

To

Executive Director / Mines
NLC India Limited
Administrative office, Block 26,
Neyveli - 607 803.
Cuddalore District, Tamil Nadu.

Dear Sir,

Tender No.:

Name of the work:

1. I/We hereby offer to carry out the work mentioned in the tender.
2. I/We have carefully perused all Tender Documents connected with the above work and I have fully understood the Terms and Conditions.
3. I/We am/are agreeable to abide by all Terms and Conditions of this tender.
4. Declaration regarding relatives:
 - i. Whether any relatives employed in NLCIL : YES / NO
 - ii. If YES, furnish the details:

Sl. No.	Name	Designation	Unit	CPF No	Relationship

5. I/We hereby agree and undertake that, I/We furnish necessary documents for finalizing the contract immediately after completion of work as per the Tender Conditions.

Thanking you,

Yours faithfully

Place:

Date:

(Signature of the Bidder with seal)

ANNEXURE-V
AFFIDAVIT DECLARATION

We do hereby declare that the contents of the offer submitted against this tender have been submitted after fully understanding that the information contained in the offer and the documents enclosed/ provided along with the bid are true, correct and complete in every aspect and that if any information contained therein found to be false/ incorrect/ fabricated, offer shall be considered as null and void and we shall be liable for any penal action as per the provisions of Law for the time being in force.

i) I/We Partner/ Legal Attorney/ Proprietor/ Accredited Representative of our Company / Firm declare that, we are submitting our offer/ bid for the supply of equipments/ materials/works/ services vide our offer for this Tender.

ii) The contents/ enclosures/ documents of the offer are submitted after fully understanding that all the information furnished by me/ us are correct and true and complete in every respect and all documents/ credentials submitted along with the offer/ bid are genuine, authentic, true and valid.

iii) During the verification of offer or even at a later date, if any information or document submitted by me/ us found to be false/ fabricated/ incorrect, the said offer shall be considered absolutely null and void and action as deemed fit shall be taken against me/ us including forfeiture of EMD/Bid Guarantee/ Security Deposit/ Contract Performance Guarantee and action of suspension/ banning of my / our firm (including all partners of the firm)/ company as per the tender conditions and law.

Place:

Date:

Signature of the Bidder with seal

ANNEXURE-VI
BANK ACCOUNT DETAILS FOR E-PAYMENT

(This form must be furnished by the Bidder who
are not having any party code allotted by NLCIL
for e-Payment)

1. Name of the Bidder
(Individual/company/firm)
with Address :
2. Bank Account No. :
3. Type of Account :
4. Name of the Bank :
5. Name of the Branch with Address :
6. Branch Code :
7. IFSC Code (for NEFT/RTGS Payment) :
8. Telephone No.- Bank :
9. E-mail ID - Bank :

Signature of the Bidder
(Individual/Company/Firm) :

Bank Seal

Signature
(Bank Branch Manager)
Manager code No.

**UNDERTAKING REGARDING ENGAGEMENT OF PERSONNEL/WORKMEN IN THE
ROLLS OF THE BIDDER AND APPOINTMENT LETTER/EMPLOYMENT CARD &
GST COMPLIANCE**

Name of the work:

Tender Ref:

1. The Personnel/Workmen engaged by us for execution of works in NLCIL shall be borne on our rolls and will be given Appointment letter/ Employment card under CL (R&A) Act 1970.
2. We are regularly depositing the GST and we are not defaulter in payment of GST and discharge our liability under the service.
(OR)
3. The value of the service rendered by us is less than Rs.20 lakhs in any financial year so far.

Place:

Date:

Signature of the Bidder with seal

**UNDERTAKING REGARDING DOCUMENTS/CLEARANCE CERTIFICATES
REQUIRED FOR FINALISATION & CLOSURE OF CONTRACT**

Tender No:

Name of work:

I/We hereby undertake to furnish the following documents/
clearance certificates immediately on completion of works.

1. Bill form for final bill with measurement acceptance.
2. Final bill EPF clearance from HR department
3. Final IR clearance from HR department
4. Wage disbursement details
5. Arrear payment details-consolidated statement
6. Bonus payment details
7. Supervisor payment details- consolidated statement
8. Documentary proof for safety appliances & Group insurance.
9. TA clearance certificate
10. Penalty / recovery details if any
11. Letter of undertaking for finalized value and compliance of statutory obligations.

Place:

Date:

Signature of the Bidder with seal

UNDERTAKING REGARDING PAYMENT OF MINIMUM WAGES

Name of the work:

Tender Ref:

I/We shall ensure that each workman, employed by us, is paid not less than rate of wages and DA notified from time to time. Rate of Wages and DA are shown in Annexure VII of Tender Document.

Place:

Date:

Signature of the Bidder with seal

**DECLARATION BY THE BIDDER REGARDING BANNING/DEBARRING
/BLACKLISTING OF THE FIRM**

I/We, hereby declare that our Firm/Entity/Company is not banned/debarred/blacklisted by any other Central Public Sector Enterprises (CPSEs)/ Government Entities as on the date of original scheduled date of tender opening.

I/We, hereby agree that in case while processing the tender or during post award of tender, any such banned/debarred/blacklisted instances by other Central Public Sector Enterprises (CPSEs)/ Government Entities, is known to NLCIL, the same will amount to the suppression of the material information, and our offer/ bid will be disqualified by NLCIL, if the tender is under process. If already awarded, then the purchase order/contract will be terminated by NLCIL.

In the above circumstances, I/We will not have any claim on NLCIL towards such disqualification or termination of Contract/Purchase Order.

Place:

Date:

Signature of the Bidder with seal

**UNDERTAKING TO BE FURNISHED BY THE PARTNER IF WORK EXPERIENCE
IS FURNISHED IN THE NAME OF ANY ONE OF THE PARTNERS OF THE
PARTNERSHIP FIRM**

1. We have participated in the subject Tender (Tender No. ----
-----) for the work of -----
-----, as a partnership firm
and submitted our bid.

2. I am one of the partners of the partnership firm and the
Work Experience is furnished in my name. Hence, I hereby give
an undertaking that **"I shall not withdraw from the partnership
till the completion of the work, in case our firm happened to
be the successful bidder"**.

Signature of the Partner whose PQ is furnished.

Endorsed and submitted by me / us for consideration

Place:

Date:

Signature of the Bidder with seal

UNDERTAKING REGARDING FAIR LABOUR PRACTICES

Tender No:

Name of work:

For the above tender I/We -----
----- hereby declare the following:

I/we undertake that I/we shall not indulge in any unfair labour practices viz., collecting money for employment, collecting back certain amount of money after disbursement of wages etc., from Contract workmen/Supervisors and if found indulged in any such unfair labour practices by any contractor employer, then they are liable for Banning from participating in the NLCIL's Tenders.

Place:

Date:

Signature of the Bidder with seal

FORMAT OF INTEGRITY PACT

(To be executed on plain paper and applicable for all tenders of value above Rs 1 crore)

Integrity Pact Between

NLC India Limited (NLCIL) hereinafter referred to as "The Principal" and _____ hereinafter referred to as "The Bidder/Contractor"

Preamble:

The Principal intends to award, under laid down organizational procedures, contract/s for _____. The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal cooperates with the renowned international Nongovernmental Organization "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an Independent External Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Definitions:

In pursuance of the above Pact, for the purposes of this provision, the Principal defines the relevant terms set forth therein as under:

- 1) "Contract" means the contract entered into between the Principal and Bidder (or Tenderer) / Contractor for the execution of work mentioned in the preamble above.
- 2) "Contractor" means the bidder or tenderer whose tender (bid) has been accepted by the principal or Company whose tender (bid) has been accepted and shall be deemed to include his/its/their successors, representatives, heirs, executors and administrators unless excluded by the Contract.
- 3) "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract; In order to achieve these goals, the Principal proposes to appoint one or more Independent External Monitor/s who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

- 4) "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the Principal designed to establish bid prices at artificial, noncompetitive levels; and
- 5) "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution;
- 6) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Principal and includes collusive practices among Bidders (Prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Principal of the benefits of free and open competition;
- 7) "Independent External Monitor" means a person, hereinafter referred to as IEM appointed, in accordance with Section 8 below, to verify compliance with this agreement.
- 8) "Party" means a signatory to this agreement.
- 9) "Purchaser" means NLC INDIA LTD, Neyveli, incorporated under the Companies Act 1956, having their registered Office at Chennai-600 010 and includes their successors.
- 10) "Bidder or Tenderer" means the person, firm or company submitting a tender (bid) against the invitation to Tender (bid) and includes his/its/their staff, consultants, parent and associate and subsidiary companies, agents, consortium and joint venture partners, subcontractors and suppliers, heirs, executors, administrators, representatives, successors.

Section 1 - Commitments of the Principal

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 1. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
 2. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in

particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.

3. The Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder/Contractor

- (1) The Bidder / Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 1. The Bidder / Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 2. The Bidder / Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or nonsubmission of bids or any other actions to restrict competitiveness or to form cartels in the bidding process.
 3. The Bidder /Contractor will not commit any offence under the relevant Anticorruption Laws of India: further the Bidder /Contractor will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 4. The Bidder / Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to

or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

5. The Bidder / Contractor of foreign origin shall disclose the name and address of the Agents / representatives in India, if any. Similarly the Bidder / Contractor of Indian Nationality shall furnish the name and address of the foreign principals, if any.
 6. In Case of subcontracting, the principal contractor shall take the responsibility of the adoption of IP by the sub-contractor.
- (2) The Bidder / Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or credibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

- (1) If the Bidder / Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
- (2) A transgression is considered to have occurred if the Principal after due consideration of the available evidence, concludes that no reasonable doubt is possible.
- (3) The Bidder accepts and undertakes to respect and uphold the Principal's absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is

given freely and after obtaining independent legal advice.

- (4) If the Bidder / Contractor can prove that he has restored / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely, provided such systems has been audited by an independent agency.

Section 4 - Compensation for Damages

- (1) If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to Earnest Money Deposit / Bid Security.
- (2) If the Principal has terminated the contract according to Section 3 or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to Security Deposit /Performance Bank Guarantee.

Section 5 - Previous transgression

- (1) The Bidder declares that no previous transgressions occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders / Contractors/ Subcontractors

- (1) The Bidder / Contractor undertakes to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
- (2) The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.

- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidders/Contractor/ Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 - Independent External Monitor (IEM)

- (1) The IEMs have been appointed by the Central Vigilance Commission. The task of the IEMs is to review independently, whether and to what extent the parties comply with the obligations under this agreement.
- (2) The IEM is not subject to instructions by the representatives of the parties and performs his functions, neutrally and independently. He reports to the Chairperson of the Board of the Principal.
- (3) The Contractor accepts that the IEM has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the IEMs, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The IEM is under contractual obligation to treat the information and documents of the Bidder / Contractor / Subcontractor with confidentiality.
- (4) The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.
- (5) As soon as the IEM notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The IEMs can in this regard submit nonbinding recommendations. Beyond this, the IEM has no

right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

- (6) After award of work, the IEMs shall look into any issue related to execution of contract if specifically raised before them. However, the IEMs may suggest systemic improvements to the Principal if considered necessary to bring about transparency, equity and fairness in the system of procurement.
- (7) The IEMs would examine all complaints received by them and give their recommendations/views to the Chief Executive of the Principal, at the earliest. They may also send their report directly to the CVO in case of suspicion of serious irregularities requiring legal/administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs are expected to tender their advice on the complaints, within 30 days.
- (8) For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation and submit their joint recommendations to Principal.
- (9) IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers.
- (10) In the event of any dispute between the Principal and the Contractor/Bidder, in case, both the parties are agreeable, they may try to settle the dispute through mediation before the IEMs in a time bound manner, not more than five meetings for a particular dispute resolution. The sitting fees and expenses towards travel and stay arrangements for such meetings for the IEMs shall be equally shared by both the parties.
- (11) If required, the Principal may adopt any mediation rules for this purpose. In case, the dispute remains unresolved even after mediation by the panel of IEMs, the Principal may take further action as per the terms and conditions of the contract.
- (12) The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some

bidders. At the same time, it must be understood that IEMs are not consultants to Principal. Their role is independent in nature and the advice once tendered would not be subject to review at the request of Principal.

- (13) Issues like warranty/guarantee etc shall be outside the purview of IEMs.
- (14) The reference to "IEM" would include both Singular and Plural.
- (15) The IEM can be removed from his office, before the expiry of his tenure only with the approval of the Board of the Principal.

Section 9 - Pact Duration

Integrity Pact, in respect of a particular contract, shall be operative from the date IP is signed by both the parties till the final completion of the contract. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. For all other bidders it shall be operative up to 6 months after the contract has been awarded.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairperson of the Principal.

Section 10 - Other provisions

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. Chennai / Neyveli. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
- (2) Changes and supplements as well as termination notices need to be made in writing.
- (3) If the Contractor is a partnership or a consortium this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

- (5) "A person signing IP shall not approach the Courts while representing the matters to IEMs and he / she will await their decision in the matter".

For the Principal

For the Bidder / Contractor

Place:

Date:

Witness 1 _ _ _ _ _ _ _ _ _ _ Witness 1

Witness 2 _ _ _ _ _ _ _ _ _ _ Witness 2

CONTRACT AGREEMENT

Note: To be on a Stamp Paper of value Rs. 20/- purchased in the Name of Tenderer or NLCIL

This CONTRACT AGREEMENT made this _____ day of _____ 20
between NLC INDIA LIMITED, NEYVELI (hereinafter called
NLCIL) of the one part
and _____ of _____ in the
_____ state of
_____ (hereinafter called the "CONTRACTOR")
of the other part.

WHEREAS NLCIL is desirous that certain work should be
constructed viz.
and has accepted a Tender by the Contractor for the
construction or maintenance of such works.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1.0 In this agreement words and expressions shall have the
same meanings as are respectively assigned to them in the
Conditions of Contract referred to.

2.0 The following documents shall be deemed to form and have
been read and construed as part of this agreement. Viz.

- a. The said Tender
- b. NOTICE INVITING TENDER (NIT)
- c. Techno-commercial Conditions consisting of the following:
 - i) Instructions to Bidders
 - ii) Special Conditions
 - iii) General Conditions
- d. Agreement Schedule consisting of scope of work
- e. Time Schedule
- f. Drawings (if applicable)
- g. Letter of Award.

3.0 In consideration of the payments to be made by NLCIL to
the Contractor as hereinafter mentioned, the Contractor
hereby covenants with NLCIL to construct / maintain the works
in conformity in all respects of the provisions of the
Contract.

NLCIL hereby covenants to pay the Contractor in consideration
of the construction, completion and maintenance of the Works,

the Contract Price at the time and in the manner prescribed by the Contract.

In Witness thereof the parties herein have caused their respective common seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year first above written.

Signed, Sealed and delivered by the said _____

_____ in the

presence of Witness :
Signature :
Name in Block Letters:
Occupation :
Address :

Dated Signature of Contractor

Dated Signature of the

In the capacity _____

On behalf of _____

On behalf of NLCIL

TECHNICAL SCOPE OF WORK

A. SCOPE OF WORK:

Item	Description	Required Qty. with Unit of measure
Item 1	Supply, Installation, Testing & Commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with Video Management Software (VMS) and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL Headquarter (HQ), along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP cameras with three years warranty from the next day of commissioning and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions	01 Set

Set of above "Item 1" consists of the following:

1. Supply, Installation, Testing & Commissioning (SITC) of one Integrated Command & Control Centre (ICCC) with Video Management Software (VMS) and AI based Video Analytics (VA) Software for 500 Nos. of CCTV IP cameras (150 Nos. New and 350 Nos. Existing) in NLCIL Headquarter (HQ), Neyveli, Tamil Nadu.
2. Supply, Installation, Testing & Commissioning (SITC) of five Unit Monitoring Station at following NLCIL Mines Unit:
 - i. Mine-I & IA at Neyveli, Tamil Nadu
 - ii. Mine-II at Neyveli, Tamil Nadu
 - iii. Talabira II& III OCP at Jharsuguda, Odisha
 - iv. Barsingsar Mines at Barsingsar, Rajasthan
 - v. Pachwara South Coal Block, Jharkhand
3. Supply, Installation, Testing & Commissioning (SITC) of CCTV cameras surveillance system with 150 Nos. of new CCTV IP cameras, wireless data communication network connectivity through RF wireless modem and other accessories in following NLCIL Mines viz. Mine-I, Mine-IA, Mine-II at Neyveli, Tamil Nadu, Talabira II& III OCP at Odisha, Barsingsar Mines at Rajasthan and Pachwara South Coal Block, Jharkhand.

with three-years of warranty from the next day of commissioning and three-years of CAMC after warranty period for the entire installed system along with necessary licenses and permissions.

B. PERIOD OF WORK:

S. No.	Item	Period
1	For Supply of all materials (excluding deployment of technical manpower) as given in schedule	Within 90 days from the date of LOA
2	For Installation, testing & commissioning (along	Within 180 days from the date of LOA

S. No.	Item	Period
	with Civil Works)	
3	Warranty Period	03 years from immediately next day from the date of Commissioning of the system i.e. 36 months
4	CAMC Period	03 years from the next day of completion of warranty period of the system i.e. 36 months
Hence, the overall contract period is 06 years and 06 months i.e. 78 months from the date of LoA		

C. DUTIES OF CONTRACTOR:

1. ICCC at NLCIL HQ Neyveli:

- i. One fully furnished Integrated Command & Control Centre (ICCC) is to be established in NLCIL HQ Neyveli for effective centralized monitoring and analyzing various events of video feeds through VMS and AI based VA of various CCTV IP Camera footages installed in multiple locations of the NLCIL mines and other establishments of NLCIL with 90 days backup storage.
- ii. The ICCC is to be equipped with necessary processing, sufficient suitable storage and video management software capacities for viewing and storage of 500 Nos. of CCTV IP Cameras footage at NLCIL HQ which included 150 nos. of new IP based CCTV cameras and 350 nos. of existing IP based CCTV cameras.
- iii. The ICCC is to be equipped with state-of-the-art Video Analytics for minimum 500 Nos. of CCTV Cameras for detection and intimation of various types of specified events as defined later. All video analytics shall be run-on real-time basis.
- iv. The successful bidder shall deploy two manpower on 24x7 basis during warranty and CAMC period at ICCC NLCIL HQ Neyveli in each shift (03 shifts in a day). The deployed manpower shall be experienced and technically qualified (i.e. Diploma/Graduation) having sufficient skill for handling VMS and VA, analyzing, reporting, troubleshooting etc.
- v. The successful bidder shall have to submit copy of qualification documents/certificates of the deployed manpower to NLCIL.
- vi. The manpower deployed at ICCC NLCIL HQ Neyveli shall provide all technical assistance, if required by NLCIL Personnel at any time. They should also possess required skill and proficiency to impart necessary training in the work of operation of ICCC including generation of reports.

- vii. The successful bidder shall provide adequate training to the manpower of NLCIL in respective domains of the ICCC as per clause 41 under F. SPECIAL CONDITIONS.
- viii. The solution must be scalable, interoperable, and modular with integration capabilities for CCTV surveillance system, GPS based Vehicle Tracking Systems (VTS), Fuel Management Systems (FMS) and other upcoming applications/systems and provide the monitoring of their live data and reports as per the requirement of the NLCIL. The successful bidder shall be responsible for such integration by providing comprehensive API (Application Program Interface) or SDK (Software Development's Kit) to allow interfacing and integration with existing systems and future application and also provide multiple system summary and correlation data in a single unified dashboard. For this purpose, the successful bidder shall work in coordination with the extant vendor(s) of NLCIL for integration of above-mentioned technologies with ICCC.

2. Unit Monitoring Stations at NLCIL Mines site location:

- i. The successful bidder shall establish fully furnished Unit Monitoring Station with furniture, interior design and identity-based access at five locations in NLCIL Mines Unit as per the given specification. The required Items, furniture and interior for Unit monitoring station are given in the Schedule. All 5 Unit Monitoring Station shall be used for monitoring of the live activity through VMS of different locations of respective Mines.
- ii. The successful bidder shall deploy one technical manpower on 24x7 basis during warranty and CAMC period at each of the five Unit Monitoring Station in each shift (03 shifts in a day) for monitoring, reporting the abnormal situations to the NLCIL authority and any technical troubleshooting during entire contract period.
- iii. All the five Unit Monitoring Station shall be connected to the centralized ICCC, NLCIL HQ Neyveli through ILL/MPLS provided by NLCIL. The locations shall have additional cameras, Local VMS, Workstations, online UPS with SNMP for remote monitoring, Industrial Air conditioner with remote monitoring feature, Network switches, OFC & CAT6 cable as per requirement, Racks, 75" LED displays, Firewall, Tables & Chairs, Chemical Earthing etc.,

3. Installation of CCTV Surveillance system at NLCIL Mines site location:

- i. The successful bidder shall install 150 nos. of new IP based CCTV cameras with wireless data network connectivity through RF modem, poles & towers and other accessories in NLCIL Mines as per instruction given by NLCIL official. Suitable supporting channels/angles/frames for camera supporting arrangement are to be provided with necessary bolts and nuts for permanent fixing by the firm. Cameras/RF modems shall be mounted on existing building roof/ tower/ structure or offered

pole(s)/towers. All Camera/RF Modems connectors shall be provided with water proof and dust proof housing. The CCTV Cameras Surveillance system will be operational on 24 x 7 basis.

- ii. The works shall be carried out as per instruction of officials of NLCIL and according to the terms and conditions of the contract. The successful bidder shall arrange for all tools/tackles, testing instruments, software, etc., as required to execute the work during installation, testing, commissioning and maintenance period.
- iii. The CCTV surveillance system shall have outdoor IP Cameras with inbuilt storage and NVR with storage capacity of minimum 15 days of recording.
- iv. There will be provision for viewing the live camera feed and replaying the cameras footage at remote locations. As per direction of NLCIL officials, some of PCs/Laptop should be configured for monitoring the live footage and replaying of recorded footage.
- v. All cost and charges for establishing and successful functioning of CCTV Surveillance System shall be in the scope of the successful bidder.
- vi. The successful bidder shall undertake to make necessary modification in the CCTV Surveillance System as per instructions of NLCIL officials.

D. BRIEF DETAILS OF WORKING IP - CAMERA SYSTEM OF NLCIL:

1. Presently IP based CCTV cameras are installed at Weighbridges, Coal Stock, Mine viewpoints, Coal Sidings, Check post, Magazines, Yards, stores & other critical locations at various Mines/Units of NLCIL.
2. The category of existing IP Cameras are Bullet and PTZ type of different Makes i.e, Honeywell, Hikvision, CP Plus, Matrix, Norden, Dahua, Hi-focus etc. NVR installed at NLCIL Mines are of Honeywell, CP Plus, Matrix, Norden, Dahua, Hi-focus etc. The video footage from IP-Cameras installed at fields is received at recording/ storage devices of Mines through wireless connectivity using RF modems.
3. The video footage from IP-Cameras installed at NLCIL Mines is received at recording/ storage devices in NVRs at various location through RF modem based wireless data connectivity or OFC cable of NLCIL's LAN/WAN network.

E. OBLIGATION OF NLCIL:

1. NLCIL shall provide a suitable room for establishment of ICCC at NLCIL HQ Neyveli and Unit Monitoring Station at NLCIL Mines.
2. The ILL/MPLS Network of required bandwidth shall be provided by NLCIL in the all the above-mentioned five Unit Monitoring Station sites and at ICCC, Neyveli HQ.

3. The work including material(s) is subject to inspection at all times by the NLCIL.
4. NLCIL reserves right to test all the materials supplied randomly if required at CARD (testing unit of NLCIL) or any other approved/accredited laboratories and the result will be binding on successful bidder.
5. The material will be rejected if they fail during the tests conducted by NLCIL on receipt at NLCIL site.
6. NLCIL may decide to randomly inspect work/material at any of the work execution stage(s) through NLCIL representative(s). Such inspection shall be in accordance with standard test(s) and procedure(s).
7. During warranty/CMAC period, in case of any fault/breakdown of system, NLCIL will inform the successful bidder through mobile/ email/ WhatsApp etc.
8. On submission of invoice bills by successful bidder, NLCIL shall process the bills and make payment subject to satisfactory completion of work and as per terms and conditions.

F. SPECIAL CONDITIONS:

1. Location of Work – Above ground level
2. Nature of Work – Turnkey
3. Validity of Contract period- The contract for offered ICCC system will be valid for a period of 06 (Six) years and 06 months i.e. 78 months from the date of LoA. The contract period and validity may extend with mutual consent of both NLCIL and firm on pro rata basis, if required.
4. To supply the tendered items at consignee locations with installation and commissioning of supplied items at NLCIL HQ as well as at respective Mines within the specified delivery period.
5. The successful bidder has to take up the contract on turnkey basis. All Items installed should be sufficiently robust and should be suitably corrosion resistant, weather tolerant and vandal resistant. The network and electrical cabling should be robust and tamper proof for ensuring proper Monitoring functioning. Placement for all outdoor/indoor equipment should be done to ensure reasonably good protection.
6. The successful bidder shall provide secured, reliable, foolproof and tamperproof digital solution for the commissioned ICCC room at NLCIL HQ, Neyveli and Unit Monitoring Station at NLCIL Mines to record attendance of the deployed manpower, all movement of visitors and authorized persons and to restrict entry of any unauthorized person in the premises.
7. The network and electrical cabling shall be robust and tamper proof for ensuring proper functioning of the system. Placement for all outdoor/indoor equipment should be done to

- ensure reasonably good protection.
8. The responsibility of successful bidder is to design, develop, supply, installation, testing and commissioning of the one no. Integrated Command & control Centre (ICCC) at Neyveli for 500 CCTV cameras (150 nos. New and 350 nos. Existing), five nos. Unit Monitoring station at NLCIL Mines and CCTV surveillance system with 150 nos. of new IP based CCTV cameras Surveillance system wireless data connectivity through RF modem in NLCIL Mines with three years of warranty and three years of CAMC after warranty of the system.
 9. The installed ICCC system shall have centralized access to the Unit Monitoring Station of NLCIL Mines through ILL / MPLS connectivity provided by NLCIL.
 10. The live video footage of 500 cameras shall be recorded including event / alert recording for a minimum period of 90 days.

Note:

For the above-mentioned analytics, the rules to be defined, wherever required, shall be done as per NLCIL.

11. The installation, commissioning and technical support of software for the supplied VMS and video analytic features for the entire period of the contract shall be done by the successful bidder.
12. The designed and offered solution shall have the capacity to cater to approx. 750 Nos. IP Cameras as and when required by NLCIL in future.
13. The new NVRs/Cameras shall be installed and configured at each of the NLCIL Mines. The video feeds from each NVR/camera will be transmitted and recorded/analyzed in Server installed at the corresponding Unit Monitoring Station as well as ICCC HQ Neyveli. The video feeds shall be transmitted and stored at ICCC, NLCIL HQ Neyveli for processing through VA & VMS installed at ICCC, NLCIL HQ Neyveli on real time basis . SMS/Email/WhatsApp alert shall be generated for any deviation or abnormal activity. It shall be the responsibility of the successful bidder to integrate the existing cameras of various makes and models with the NVR, VMS and VA software. Further the ICCC system has to be scalable in nature and should be able to integrate any additional NVRs/Cameras which may be installed in future depending on requirements of NLCIL. The successful bidder in such conditions should communicate to NLCIL the required technical parameters of the NVRs/cameras to be procured to ensure compatibility.
14. The successful bidder has to ensure that continuous testing/ configurations for successful functioning of the ICCC system should be done on regular basis. The ICCC system should have a feature to show the logs of all such modifications in the software.
15. The platform software for installation of VMS, VA software, etc. must be enterprise licensed. Any Home editions shall not be acceptable. All IT Components supplied against

this bid should support IPv4 and IPv6.

16. Maintaining proper hygiene and cleanliness of and around the commissioned system at ICCC NLCIL HQ Neyveli and Unit Monitoring station at NLCIL Mines shall be in the scope of Contractor.
17. During the period of the contract, the successful bidder shall be responsible for customization of the solution as per requirement of the NLCIL including additional AI based Video Analytics/ event flagging, on mutually agreed basis. For including additional AI Video Analytics in future, the offered rate will be considered for the same or any other similar type of Video Analytics.

18. License for the following Analytics:

S. No.	Analytics	Numbers
i	Vehicle detection and classification	37
ii	Number plate detection/Recognition	98
iii	Crowd and Miscellaneous event detection	36
iv	Personal protective equipment (PPE) detection	193
v	Fire and smoke detection	62
vi	Zone intrusion Alert	48
Total		474

Note:

(a) In future during the entire Contract period, NLCIL may increase up to 50% the above licenses of different camera events as required. The successful bidder shall provide the licenses to NLCIL, at the same offered rates and terms and conditions.

(b) The system must be capable of simultaneously running multiple analytics on a single camera.

19. It shall be the responsibility of the successful bidder to arrange for development and successful implementation of software for the supplied video analytic features.
20. The supply of furniture and interior for ICCC control room and Unit Monitoring Station shall be as per schedule bill of material.
21. NLCIL has considered all equipment for fulfilment of objectives of the system. However, if any items/ equipment/ system/consumables is required as per site condition in addition to the items mentioned in the schedule of bid Document for fulfilment of the aforementioned objectives, the same should be supplied, installed and maintained by the

- successful bidder without any additional cost to NLCIL. Hence all such items/services including consumable of various equipment installed in this ICCC system which are not included in the bill of materials, but may be required during installation, Testing, commissioning and maintenance during entire contract period, shall be provided by successful bidder without any additional cost to NLCIL.
22. The proposed system should support and have provision for scalability/integration of additional CCTV Cameras as per requirement of NLCIL. The necessary additional hardware & Software required for scalability/integration of this additional requirement will be procured as per mutual consent of buyer and successful bidder at the same quoted rate.
 23. The ICCC System shall provide a dedicated portal with Mines wise dashboard, to be accessed by respective Unit monitoring Stations via Mines-wise login credentials for viewing and periodical report generation to be submitted to NLCIL official for ATR against specific events / exceptions under their respective Mines. Report generation, printing, scanning, copying, fax of any documents shall be in the scope of Successful bidders.
 24. The ICCC System Dashboard should have provision for providing escalation matrix for automated sending of exceptions to designated authorities as per SOP defined by NLCIL.
 25. In case of network issue between any particular Project/ Mines and NLCIL HQ, the ICCC System should be able to sync with the mines unit level storage for retrieval of last 15 days data at any point of time as soon as the connectivity is restored.
 26. During the period of the contract, any facility/feature/ software upgradation of any supplied item which are offered by the respective OEM/ Developer will have to be made available to NLCIL without any additional cost, even if the same is not mentioned in the bid document.
 27. **Wiring/cabling standard:** All wiring/cabling/ terminations/ patches must follow EIA/TIA standards wherever applicable. All Cabling should have proper non-perishable identification at the terminals for easy tracing. Proper documentation with diagram should be made for all wiring/cabling/terminations. All indoor wirings/Cablings should be properly secured, duly terminated, easily maintainable and aesthetically sound.
 28. **Placement/Fittings etc.:** All Equipment installed should be properly placed which should be secure, aesthetic, convenient for maintenance, healthy from operational and fault liability point of view and follows standards (Industry and/or recognized authority) wherever applicable. It will include placement of all switches in suitable Racks, other hardware including Power Supplies in suitable racks/enclosures/stands etc. Suitable enclosures, if any needed beyond list of equipment mentioned, as per site requirement will have to be provided by the successful bidder without any additional cost to NLCIL.
 29. **OFC cable:** As the work needs laying of Fibre Optic Cables for connecting the CCTV

cameras, the trench cutting is to be done wherever necessary as per site condition and GI pipes are to be used at road or drain channel crossing. Cameras/modems shall be mounted on Poles/Towers in some places as per site requirement.

- i. For establishing OFC cable connectivity as per the site conditions, the required HDPE Pipes with accessories, Closure kits, Racks, LIU, patch cords, Earthing items, Clamps, screws including tools and testing instruments, etc., as per site requirement shall be in the scope of Successful bidder.
- ii. Laying of Fiber Optic cable: The OFC cable shall be installed inside the required diameter of PLB-HDPE pipes. The cable shall be installed by compressed air blowing/pulling technique. The HDPE pipes shall be suitably coupled with good quality couplers for perfect insulation and free flow of OFC during blowing/pulling. Necessary Fibre Optic cable service loops shall be provided/stored at each splicing point (10 to 20 M or as directed by NLCIL officials). OFC should be neatly coiled without kinks and minimum bending radius to be followed. OFC laying shall be carefully planned to minimize the splicing work. At LIU locations the maximum OFC cores shall be passed through the LIU without cutting them through careful network planning. Only the essentially required core shall be cut and terminated in LIU. This shall be carefully planned and executed as per the instructions of NLCIL executives.
- iii. Trenching: Excavation of trenches, up to a depth of 2.0 meters minimum from the surface level. The width of the trench should be minimum 35 cm. The bottom of the trench shall be uniform and sufficient to lay the requisite number of HDPE/GI pipes. The alignment of the trench shall be decided in consultation with NLCIL official in charge of the work shall be in the scope of the successful bidder.
- iv. Duct shall be laid in a flat bottom trench free from stones, sharp edged debris. No water should be present in trench, while laying the cable duct. The Contractor shall be responsible for all necessary arrangements to remove or pump out water from trench while carrying out the work, without extra payment. Wherever the soil is hard, if watering is to be done for wetting the soil to make it loose, the same shall be done by the contractor and no extra payment shall be admissible for this. Place the duct in trench as straight as possible.
- v. While trenching, the contractor shall not cause damage to any over ground or underground installations belonging to NLCIL. A minimum free clearance of 500mm shall be maintained from any existing underground installations.
- vi. The contractor shall provide adequate precautionary measure to prevent caving in of the trenches while excavation, due to soil condition. At such locations, width of the trenches shall be kept sufficiently wide or necessary shuttering / propping shall be

provided for the trenches.

- vii. It is to be ensured that minimum amount of bushes and shrubs shall be removed to clear the way and to facilitate marking the centerline without any extra charges. The contractor shall give all consideration to the preservation of the trees with the right of way.
- viii. The whole of trench has to be backfilled with excavated material. Adequate dry compaction shall be done before crowning. The compaction shall be done in layers of 50 cm each.
- ix. Crowning: When the back filling has been done up to ground level a hump of soil is made to cater for soil settlement. The entire excavated soil shall be used for back filling. The crowing shall confine over the width of the trench only. No surplus soil shall be left outside the trench. The back fill shall be maintained by the contractor against wash out settlement below original level and rotting, until final completion of the work and until reinstated to sufficiently leveled condition as acceptable to NLCIL.

30. Power Supply:

- i. Necessary electrical supply will be provided by NLCIL for installation of ICCC system. However, the successful bidder will arrange for any additional power wiring/distribution, and also for regulation/stabilization of voltage required. All such works must be technically and aesthetically sound and standard based, wherever applicable.
- ii. The successful bidder shall ensure that protections provided in the equipment work properly in case of any abnormal electrical condition. NLCIL will make best efforts to ensure a healthy power supply, however in case of any damage to the equipment due to abnormal power supply or any other electrical disturbance, the damage has to be rectified by the successful bidder without any additional cost to NLCIL. The equipment so replaced against the damage shall be of the "same make and model" or "higher specifications" without affecting the performance of the system.
- iii. The successful bidder will ensure to provide necessary protection system/module for the entire system from thunder lightning, Surge voltage, rodent damage even if not mentioned in the list of equipment. In addition to the material as provided in the list of equipment, the vendor is free to add additional equipment or protection system to strengthen the protection system at his own cost during installation, warranty and CAMC period.
- iv. The successful bidder will ensure to provide necessary protection system like Lightning Arresters, Earthing (The contractor shall strengthen the earthing and to bring it to the desired level i.e. ≤ 1 ohm) and Ethernet Surge Protectors for the entire ICCC system from Lightning, even if not mentioned in the bid document.

Hence, any damage caused to the equipment/system/cables due to lightning and/or abnormal power supply/rodent has to be rectified/repaired/corrected by the service provider without any extra cost to the NLCIL during entire contract period.

31. **Earthing:** Lightning Arresters, Chemical Earthing, including Earth Pit Digging have been provided in the list of equipment, wherever felt necessary. However, wherever felt necessary by the successful bidder, additional protections/earthing/arrestors may be provided, without any additional cost to NLCIL.
32. The successful bidder will be fully responsible for safety of its personnel engaged in installation work. They will ensure that they and their personnel abide by the provisions of all relevant acts applicable, relating to the work. They will also ensure that he abides by all the rules and regulations of central and state governments and any local authority while executing the work. NLCIL will have the right to call for any documentation in this regard, instruct the successful bidder and take any action as deemed fit, in case of deficiency. The Successful bidder will be solely responsible for all liabilities in these regards. The successful bidder will indemnify NLCIL from any consequences caused due to their failure in this regard and will be solely responsible to bear them.
33. Successful bidder shall provide all patches and updates of Firmware for active Components during the entire contract period as and when released by OEMs without any additional cost to NLCIL.
34. The successful bidder should not bid / supply any equipment / item that is likely to be declared end-of-sale during the entire contract period. In case of such happening, such devices should be replaced with same or higher specification devices by the successful bidder, without sacrificing the performance of the system free of cost.
35. During contract period, any spare parts to be replaced shall be of same make/model or higher version without degrading the performance of the system.
36. The successful bidder shall make necessary arrangement for lodging any complaints regarding ICCS system. The Firm shall ensure a single point of contact with escalation matrix for all the complaints related to respective Project/Unit/HQ. It shall be the responsibility of the successful bidder to mobilize their technical team and back-end support for restoration of the break down. The successful bidder is required to provide 24 x7 help desk mentioning Mobile number, E-Mail address. The successful bidder also shall provide online complaint portal and Mobile App with user credential to lodging any complaints, feedback/suggestion etc. as per NLCIL requirement. Month wise report of all complaints, restoration, feedback/suggestion, ATR etc. with date and time shall be maintain in database for future reference and a print copy shall be submitted to NLCIL which shall be used for making quarterly payment or any other purpose in future.

37. The successful bidder shall make necessary arrangement for any operational change in Commissioned ICCC system as per requirement of NLCIL without any extra cost.
38. The successful bidder shall not delete any data during contract period and will not delete any data even after expiry of the contract without written approval from NLCIL. All data shall be properly secured from any unauthorized access.
- 39. Deployment of technical manpower to be provided by Successful bidder:**
- i. Deployment of technical manpower to be provided by Successful bidder: 02 Nos. at ICCC, NLCIL HQ per shift and 01 no. at each of five Unit Monitoring Station in each shift in a day (08 hours per shift & 3 shift in a day). Total manpower deployment shall be 07 nos. per shift and 21 nos. per day during warranty and CAMC period.
 - ii. The deployed manpower shall work in shifts to operate and manage the ICCC system, NLCIL HQ Neyveli and Unit Monitoring Station at five NLCIL Mines on 24X7 basis and also have to comply the statutory rules and regulations.
 - iii. The posting & shift duty of manpower may be changed during entire contract period as per the requirement of NLCIL. The deployed manpower shall report to the NLCIL Official.
 - iv. The attendance of the deployed manpower shall be recorded as per NLCIL rules and regulations. However, the successful bidder shall provide attendance monitoring system for their deployed manpower, if required. Working shift of deployed manpower shall be as per the NLCIL shift timing. Penalty shall be imposed on absence of any deployed manpower from shift as per the penalty clause.
 - v. The successful bidder will maintain sufficient spares, tools and accessories required for repair / replacement / relocation / maintenance and configuration of active and passive components of the System by deployed manpower to achieve guaranteed availability during the entire contract period.
 - vi. In case of the deployed manpower is on leave, it is the responsibility of successful bidder to provide the substitute. Successful bidder will provide name & contact no. of manpower and documents regarding the same need to be submitted.
 - vii. Arranging accommodation for manpower is the responsibility of the successful bidder at their own cost. However, on request, NLCIL may provide accommodation subject to availability to deployed manpower on chargeable basis as per NLCIL terms and conditions.
 - viii. Role/Job of manpower: The deployed manpower will maintain the system and monitor all types of alerts on dashboard and they will identify the authenticity of the alerts and report to concerned person for further necessary action as per (Standard Operating Procedure) SOP provided by NLCIL. The deployed manpower will also

follow the instructions/orders related to ICCS system given by NLCIL official time to time during the contract.

- ix. A log book containing the details of the incidents of fault/problem reported, attended, rectified with date and time should be maintained by deployed manpower and made available to NLCIL. All the entries must be verified and counter signed by the Nodal officer of NLCIL or his authorized representative.

Note: The "21 Nos. of technical manpower to be provided by Successful bidder" as mentioned here is different and additional to the Service Engineer/ technician to be provided by Successful bidder referred at the clause 45 under the head "AFTER SALES SERVICE AND MAINTENANCE".

- x. SITC and CAMC Charges shall be inclusive charges for deployment of technical manpower.

40. Patent Rights: The successful bidder shall indemnify all Projects / Units/HQ of NLCIL against all 3rd party claims of software piracy & infringement of intellectual propriety rights. In the event of any claim asserted by a third party of infringement of copyright, patent, trade mark or industrial design rights arising from the use of the Goods and services or any part thereof in India, the successful bidder shall act expeditiously to extinguish such claim. If the successful bidder fails to comply and NLCIL is compelled to pay compensation to a third party resulting from such infringement, successful bidder shall be responsible for the compensation including all expenses, court costs and lawyer fees to NLCIL and as per the company norms further action may be taken against the successful bidder.

41. Training: The Successful bidder will provide onsite minimum two days training to the minimum 10 Personnel of NLCIL and other users for operation/ configuration /maintenance of equipment and software, Servers, switches and other installed items, as per NLCIL requirement. The cost of training has to be borne by the successful bidder.

42. Warranty Period: The system shall be under warranty for a period of three years immediately next day from the date of Commissioning of the system. During the warranty period, the successful bidder shall maintain the system in all respects, including those mentioned in CAMC, at their own cost.

All types of breakdown calls are to be attended & rectified within stipulated time during warranty period. If the successful bidder fails to complete service/ rectification within defined time limit, the penalty will be applicable as per given Penalty clause.

43. Retrieval of Data from Storage Devices / Hard Disk: Since it is imperative that no loss of stored CCTV data takes place due to faulty Hard disk etc. In case of any failure of storage devices HDD etc. the successful bidder shall have to make maximum efforts for

retrieval of data stored in such storage devices and after retrieval, the data and storage device are to be returned back to NLCIL.

44. Transportation & Insurance:

- i. Transportation of all items/equipment/components/system/manpower etc. at respective location (NLCIL HQ and NLCIL Mines) as per the site and geographical conditions and requirement to achieve the objective of the ICCC system during SITC and entire warranty and CAMC period shall be in the scope of successful bidder without any extra cost to the NLCIL.
- ii. For all kind of transportation, transit insurance required for supply, Installation, testing, commissioning and Maintenance of the ICCC system as a whole during SITC and entire warranty and CAMC period shall be arranged by the successful bidder and no extra cost shall be paid. Any damage to the material and system supplied through this contract till the handover of the total system shall be the responsibility of the vendor and insurance (if any) required to mitigate the risk shall be borne by the Successful bidder.

45. After Sales Service and Maintenance:

The successful bidder shall also deploy sufficient service engineer/technician wherever required for early rectification of the issues /breakdowns, repositioning, cleaning of various hardware, software, components, CCTV equipment, RF modems and any other accessories etc. to maintain the guaranteed availability of the system during the entire contract period and post them at convenient place in consultation with NLCIL to ensure smooth maintenance of commissioned, ICCC, NLCIL HQ Neyveli, Unit Monitoring Station and CCTV camera surveillance system at NLCIL Mines during warranty period (03 years) and CAMC period (03 years) without any extra cost to the NLCIL. It may be noted that successful bidder shall arrange for the verification of character and antecedents of the deployed Service Personnel by the local police authorities at their own cost, and give an undertaking to respective Mines of NLCIL in this regard, along with relevant documents, if any. The details including Name, Address, Mobile No. and email Address of the Service representative should be intimated by the successful bidder.

Note : The Service engineers / technicians mentioned here are different and additional to the 21 nos. technical manpower to be provided by Successful bidder referred at the clause 39 above under the head "Deployment of technical manpower to be provided by Successful bidder: 07 No. in each shift in a day and 21 Nos. per day".

46. Proper positioning/ orientation of cameras and illumination of different cameras at mines/other sites for effective functioning of AI based Video Analytics at ICCC System of NLCIL HQ shall be done as per NLCIL consultation.

47. Data Handling and Retrieval Responsibility: The successful bidder shall be responsible for the proper handling and retention of all recorded data in the system procured under this tender, including to the data stored in the Surveillance HDD (or Storage device) installed in the Server / NVR / Workstation.

In the event that the recorded data becomes corrupted, inaccessible, or lost due to any means, the successful bidder shall bear full responsibility for retrieving and recovering the data. The successful bidder shall take immediate action to rectify any issues that may lead to data loss or corruption to minimize the impact on the system's functionality. The data retrieval process shall be carried out at no additional cost to the NLCIL.

Furthermore, the successful bidder shall implement suitable backup and recovery mechanisms to safeguard the recorded data from potential data loss scenarios. The backup strategy should be robust and should not affect the continuous monitoring and recording capabilities of the offered system.

The NLCIL shall not be held liable for any data loss, corruption, or damages incurred by the successful bidder due to mishandling, negligence, or any other reasons related to the recorded data.

By submitting a bid in response to this tender, the successful bidder acknowledges and agrees to take full responsibility for the proper handling, security, and retrieval of recorded data as outlined in this clause.

This clause forms an integral part of the tender document and shall be binding upon the successful bidder upon acceptance of their bid.

48. Proper fencing to be provided at the workplace to avoid un-authorized entry. Sand buckets / fire extinguisher to be provided in the workplace. All the rules, regulations and by laws under mines act to be complied. Traffic rule to be enforced strictly. In the open cast mine pedestrian should utilize road meant for them.

49. All UPS should be supplied with required number of batteries. From UPS cables have to be laid up to the server rack, network rack and at desired locations as per site requirements. Suitable power switches and board will be in the scope of the firm. Separate Box for UPS is to be provided wherever required. Irrespective of the testing carried out at the works, all the functional tests shall also be carried out at site after erection and commissioning of the system.

50. Wages / CMPF / EPF Clause: The successful bidder shall give undertaking that EPF/CMPF, wages, labour license and Insurance coverage are maintained by successful bidder for their manpower deputed for work at NLC India limited.

Note: The contractor shall ensure that all workmen deployed under the contract are paid wages strictly on a monthly basis as per applicable labour laws. Payment of charges to

the contractor by NLCIL on a quarterly basis shall not, under any circumstances, be construed as permission to delay wage disbursement to workmen. The contractor shall be solely responsible for timely payment of wages and all statutory dues. The contractor shall indemnify and keep NLCIL fully indemnified against any claims, demands, liabilities, or proceedings arising out of non-payment or delayed payment of wages by the contractor. The contractor shall submit the undertaking in prescribed format for all quarterly payments during SITC, warranty period and CAMC period as given in Annexure-B.

51. **Site visit:** The bidders, at the successful Bidder's own responsibility, cost and risk, is encouraged to visit and examine the Sites of Works and its surroundings/soil conditions details connected to the work, if / as available and obtain all information that may be necessary for preparing the Bid and entering into a contract for execution of the Works. It shall be deemed that the successful has visited the site/Mines and got fully acquainted with the working conditions and other prevalent conditions and fluctuations there to whether he actually visits the site/ Mines or not and has taken all the factors into account while quoting his rates.

It shall be deemed that the successful bidder has got himself acquainted with the mining conditions and geological details available for the proposed work site.

The successful bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid. The costs of visiting the site shall be borne by the successful bidder.

The successful bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the successful bidder will release and indemnify the buyer and consignee against all liabilities arising out of such visit including death or injury, loss or damage to the property, and any other loss, damage, costs and expenses incurred as a result of such visit.

The successful bidder shall not be entitled to hold any claim, against buyer for non-compliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the successful bidder to obtain all necessary information with regard to the site, surrounding, working conditions, weather, etc. on its own before submission of the bid.

G. PAYMENT TERMS:

1. 70% of SITC value on successful Supply, installation, testing and commissioning (SITC) of system. No part payment shall be made.
2. 30% of SITC value shall be paid during warranty period on quarterly basis on successful

- completion of warranty obligation and after adjusting penalty, if any. The first quarter payment shall be released after successful completion of mandatory training to the NLCIL officials.
3. CAMC charges on quarterly basis during CAMC period of 03 years after completion of 3 years of warranty on successful completion of CAMC obligation and after adjusting penalty, if any.
 4. No separate charges for Technical Manpower support will be paid by NLCIL. However, the contractor has to furnish the attendance per shift during entire contract period while claiming SITC and CAMC charges.
 5. The contractor shall ensure that all workmen deployed under the contract are paid wages strictly on a monthly basis as per applicable labour laws. Payment of charges to the contractor by NLCIL on a quarterly basis shall not, under any circumstances, be construed as permission to delay wage disbursement to workmen. The contractor shall be solely responsible for timely payment of wages and all statutory dues. The contractor shall indemnify and keep NLCIL fully indemnified against any claims, demands, liabilities, or proceedings arising out of non-payment or delayed payment of wages by the contractor. The contractor shall submit the undertaking in prescribed format for all quarterly payments during SITC, warranty period and CAMC period as given in Annexure-B.
 6. 70% of SITC value shall be released after successful commissioning and acceptance of commissioned equipment at site at NLCIL HQ & respective Mines of NLCIL and subsequent submission of invoices along with jointly certified document indicated successful commissioning by the representative of NLCIL HQ Neyveli & respective NLCIL Mines and representative of the successful bidder. For successful commissioning of equipment, the supplier shall depute competent person at site and provide technical assistance required for commissioning and initial testing of the equipment.
 7. Payment shall be released by NLCIL within 30 days of submitting the relevant invoices and documents.

H. DECLARATION / UNDERTAKING ON SUCCESSFUL BIDDER'S LETTER HEAD:

1. **Malicious Code Certificate:** The successful bidder should upload following certificate in the bid that we M/s.....
 - i. This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures
 - a. Inhibit the desires and designed function of the equipment.
 - b. Cause physical damage to the user or equipment during the exploitation.
 - c. Tap information resident or transient in the equipment/network.

- ii. The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.
2. Technical specifications listed in the bid document are the minimum required specifications. Items of higher specifications will also be acceptable successful bidder have the option to propose a product with higher specifications for evaluation. However, it's crucial that any such higher specification product fully meets the criteria set out in this tender document and is both compatible with and meets the requirements of NLCIL. Any suggested deviations from the specified product must be thoroughly explained, along with reasons for its suitability and alignment with the objectives of the tendered solution. Non-compliance with these requirements could result in the rejection of the bid. Furthermore, if the documents submitted by the successful bidder create any ambiguity that is not adequately clarified by the successful bidder, the bid shall be promptly rejected. Also, the decision to accept any offered higher specification product falls under the authority of NLCIL. Failure to declare Make and Model of materials offered/quoted and/or non-submission of required details/ technical document/OEM Datasheet may lead to rejection of the bid.
3. The successful bidder shall arrange all the subscription/Licenses required for all software (which are covered or not covered in BOQ) for smooth working of the offered ICCC solution as applicable.
4. Successful bidder shall submit monthly System performing reports approved by respective nodal officers of ICCC, NLCIL HQ Neyveli and five Unit Monitoring Stations of respective NLCIL Mines. Monthly reports shall have date & time wise details of System availability, any breakdown and rectification, preventive maintenance & service, details of replaced items, deployed manpower attendance etc. and any other details required by NLCIL. Only on receipt of the duly approved monthly System performing reports, the quarterly payment for warranty and CAMC period shall be released after adjusting the penalty, if any.

I. TERMS & CONDITIONS OF THE WARRANTY PERIOD:

1. The 03 years of warranty period from the date immediately after the Commissioning of entire ICCC System shall be covered by the Bank Guarantee equivalent of 10% of the LOA value. The same shall stand forfeited in case of cancellation of the contract for any breach of contract or for any deficiency in the performance noticed during the currency of the contract.

2. The Contractor shall warrant that the Goods supplied under the contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The contractor further warrants that all Goods supplied shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Contractor, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
3. This warranty for the supplied Goods which have been accepted as a part of the commissioning certificate / acceptance certification, shall remain valid for three (03) Years of warranty period. The contractor shall, in addition, comply with the performance guarantees specified under the contract. If, for reasons attributable to the contractor, these guarantees are not attained in whole or in part, the contractor shall make such changes, modifications, and /or addition to the goods or any part specified in the contract at its own cost and expense and to carry out further performance tests at site, if NLCIL allows.
4. NLCIL shall promptly notify the contractor in writing of any claims arising under this warranty.
5. NLCIL shall notify Contractor of any errors and malfunctions, which occur and noticed when equipment is in use, by phone/e-mail/special messenger or Mobile App/online web portal provided by successful bidder directly or through his Service Engineer(s).
6. If the Successful bidder, having been notified, fails to rectify the defect(s) within the time specified, NLCIL may proceed to take such rectification action as may be necessary, at the contractor's risk and expense as specified and without prejudice to any other rights which the purchaser may have against the contractor under the contract.
7. Successful bidder shall submit monthly System performing reports approved by respective NLCIL nodal officers of ICC, NLCIL HQ Neyveli and five Unit Monitoring Stations of respective NLCIL Mines. Monthly reports shall have date & time wise details of System availability, any breakdown and rectification, preventive maintenance & service, details of replaced items, deployed manpower attendance etc. and any other details required by NLCIL.
8. **Maintenance Service during warranty period:**
 - i. Free maintenance services for the supplied Goods and other related accessories shall be provided by the contractor during the period of warranty.
 - ii. Contractor shall provide contact online portal/Mobile App/Mobile No./e-mail/postal address etc. to handle the complaints.
 - iii. Contractor shall provide services of qualified personnel in resolving defects arising in

the Goods supplied during the warranty period.

- iv. All Travel and other expenses for the persons/service engineer/technician deployed by the successful bidder shall be in the successful bidder's scope. The successful bidder shall arrange their own arrangement for transportation of their manpower for Supply, Installation, testing, commissioning and maintenance etc.
- v. The successful bidder shall also undertake to train the persons deployed by NLCIL for day-to-day operation, if required at no extra cost.
- vi. Successful Bidder will submit name & contact details including Mobile Numbers of the Service Engineers posted in the Mines. Service Engineers/technicians should carry authorization / Identity Card issued from successful bidder.

9. Penalty Clause for Warranty Period:

- i. Fault / Breakdown Attending and Rectification Time: If any of the components/equipment in the commissioned system in entire ICCC system at NLCIL HQ, Neyveli, Unit Monitoring Stations and CCTV Surveillance system at NLCIL Mines by successful bidder found defective or not working for any reason during the warranty period, the successful bidder must attend and rectify the complaint to ensure to achieve minimum uptime availability of 90% in each month.
- ii. Penalties during warranty period: If the monthly availability of ICCC system falls below 90% in any month, the warranty period shall be extended suitably by the period of one month for each of such occurrence and shall be adjusted in corresponding quarter with same terms and conditions.
- iii. Month wise availability (Uptime) of the System will be evaluated during the entire contract in percentage as follows –
$$\frac{[(\text{Total Hours in the month}) - (\text{Total Downtime in hours during the month}) \times 100]}{[\text{Total No. of Hours in the month}]}$$
- iv. Exception: The service provider will not be penalized if they make alternate arrangements by providing a spare system/component/equipment of the same or higher capacity until the repairs are completed.
- v. Exclusions: The successful bidder shall not be liable for penalties if the damage/breakdown is caused by Force Majeure conditions such as natural disasters, acts of war, government actions (Such as changes in laws, regulations, embargoes, trade restrictions, expropriations, and government orders) , Vandalism / Theft, Pandemics and epidemics, Power outages, Fuel or energy shortages, Transportation disruptions, Acts of God, Acts of Nature, etc. or any circumstances beyond their reasonable control. However, in such cases, the successful bidder must provide a detailed report justifying the cause of the damage and the inability to meet the specified timelines

for its restoration. Further, in such cases the successful bidder shall have to communicate in writing to NLCIL the nature of the Force Majeure conditions well before the expiry of stipulated restoration time as per the contract.

In case of failure under Force Majeure conditions the successful bidder shall undertake all efforts to restore all system back to operational status at the earliest. However, defects that take place under Force Majeure conditions will be repaired / replaced by the successful bidder on chargeable basis.

To facilitate early award of repair works on chargeable basis, the successful bidder shall submit work estimate with proper price justifications like previously awarded work order / OEM price certificate, etc.

- vi. The contractor will be subject to penalties, as deemed necessary by the Mines Contract Department and the NLCIL management, in the event of any unexpected or inadequate performance (*e.g. Poor overall contractor performance, Non-supply of required spares, Failure to rectify reported faults promptly, Delays in commissioning or operational readiness, Non-compliance with technical specifications or service standards, Repeated system breakdowns or excessive downtime, Non-adherence to reporting, maintenance, or documentation requirements, Any other breach of contractual obligations or actions that adversely affect system performance or NLCIL operations etc.*). These penalties may include actions such as forfeiting the complete/partial Performance Bank Guarantee (PBG)/Security or any other measures deemed appropriate by the NLCIL management.

J. TERMS & CONDITIONS OF THE CAMC PERIOD:

1. Bank Guarantee during CAMC- Entire period of CAMC (03 years from the date of expiry of warranty period) shall be covered by a Bank Guarantee equivalent of 10% of the LOA value. The same shall stand forfeited in case of cancellation of the contract for any breach of contract or for any deficiency in the performance noticed during the currency of the contract.
2. CAMC Charges- Comprehensive Annual maintenance charges for the ICCC system shall be for 03 years.
 - i. The CAMC charges quoted by the successful bidder shall be firm during the contract period.
 - ii. The Goods & Service Tax shall be paid at the prevailing rates on production of documentary proof.
 - iii. All other taxes & levies as may be applicable due to or under the law from time to time shall be inclusive of CAMC charges.
3. The manpower deployed by firm at the ICCC HQ Neyveli and at the respective Unit

- Monitoring Station of NLCIL Mines will submit the Month-wise details (with date and time) of breakdown/failure and restoration report, attendance report to NLCIL HQ, Neyveli approved by respective NLCIL nodal officer every month.
4. Payment of CAMC Charges - After the successful commissioning of the system and expiry of Warranty period, the CAMC charges will be paid quarterly after the end of each quarter. The contractor shall submit single invoice at NLCIL HQ Neyveli for entire ICCS system at the end of each three-month period (quarter) along with monthly System performing reports approved by respective NLCIL nodal officers of ICCS, NLCIL HQ Neyveli and five Unit Monitoring Stations of respective NLCIL Mines. Monthly reports shall have date & time wise details of System availability, any breakdown and rectification, preventive maintenance & service, details of replaced items, deployed manpower attendance etc. and any other details required by NLCIL.
 5. The NLCIL reserve the right to recover/ enforce recovery of any over-payments detected after payment as result of post-payment audit or technical examination or any other means, notwithstanding the fact that amount of disputed claim, if any, of the contractor exceeds the amount of such overpayment and irrespective of the fact whether such disputed claims of the contractor are the subject matter of arbitration or not.
 6. The amount of such over-payment may be recovered from the subsequent bills under the contract, failing that from contractor's claim under any other contract with the NLCIL or from the contractor's security deposit or the contractor shall pay the amount of over - payment on demand.
 7. Amount payable/ repayable for any subsequent change in the Service -tax will be made to/ from the Contractor after departmental verification of such changes of tax law issued by statutory authority.
 8. All repairs/replacement/servicing/fixing of the entire commissioned system shall be carried out only by the contractor / successful bidder and company NLCIL shall not permit or allow any other party other than the authorized contractor / successful bidder to handle or deal with the equipment.
 9. Repair/replacement/servicing shall mean system testing, replacement, repair and maintenance of entire/total equipment in ICCS system including any consumables for proper functioning of ICCS system without any extra cost to the NLCIL. The CAMC charges also include cabling works, the expenses for preventive maintenance and routine check-up and attending to breakdown calls as and when required. The firm shall supply and install spare system/component/equipment of the same or higher capacity in case of any required replacement with the approval of NLCIL.
 10. The contract is comprehensive and includes replacement, fitment, maintenance and repair

of all type of spare parts and consumables for replacement of defective parts and repair of the commissioned system. No extra charges will be payable by NLCIL on account of these spares and consumables.

11. **Spare at site:** The CAMC holder will keep sufficient stock of necessary spares with their service engineer for smooth functioning of the ICCC system. In case of major repairs (during warranty or CAMC) necessitating removal of the equipment to the contractor's service Centre, the system or its parts shall be reinstalled at the owner premises after repairing the set-in working condition. Provision of installation of spares (same or higher specifications) breakdown/damaged/under repaired items will be ensured at all times.

12. Penalty Clause for CAMC Period:

- i. Timely Servicing / rectification of defects of the system shall be ensured for achieving minimum uptime availability of 90% in each month during CAMC period. If the availability of ICCC system falls below 90% during CAMC period in any month, the CAMC period shall be extended suitably by the period of one month for each of such occurrence and shall adjusted in the corresponding quarter with same terms and conditions.
- ii. Month wise availability (Uptime) of the System will be evaluated during the entire contract period in percentage as follows –
$$\frac{[(\text{Total Hours in the month}) - (\text{Total Downtime in hours during the Month}) \times 100]}{(\text{Total Hours in the month})}$$
- iii. Exception: The service provider will not be penalized if they make alternate arrangements by providing a spare system/component/equipment of the same or higher capacity until the repairs are completed.
- iv. Exclusions: The successful bidder shall not be liable for penalties if the damage/ breakdown is caused by Force Majeure conditions such as natural disasters, acts of war, government actions (Such as changes in laws, regulations, embargoes, trade restrictions, expropriations, and government orders) , Vandalism / Theft, Pandemics and epidemics, Power outages, Fuel or energy shortages, Transportation disruptions, Acts of God, Acts of Nature, etc. or any circumstances beyond their reasonable control. However, in such cases, the successful bidder must provide a detailed report justifying the cause of the damage and the inability to meet the specified timelines for its restoration. Further, in such cases the successful bidder shall have to communicate in writing to NLCIL the nature of the Force Majeure conditions well before the expiry of stipulated restoration time as per the contract.
In case of failure under Force Majeure conditions the successful bidder shall undertake all efforts to restore all system back to operational status at the earliest.

However, defects that take place under Force Majeure conditions will be repaired / replaced by the successful bidder on chargeable basis.

To facilitate early award of repair works on chargeable basis, the successful bidder shall submit work estimate with proper price justifications like previously awarded work order / OEM price certificate, etc.

- v. The contractor will be subject to penalties, as deemed necessary by the Mines Contract Department and the NLCIL management, in the event of any unexpected or inadequate performance (*e.g. Poor overall contractor performance, Non-supply of required spares, Failure to rectify reported faults promptly, Delays in commissioning or operational readiness, Non-compliance with technical specifications or service standards, Repeated system breakdowns or excessive downtime, Non-adherence to reporting, maintenance, or documentation requirements, Any other breach of contractual obligations or actions that adversely affect system performance or NLCIL operations etc.*). These penalties may include actions such as forfeiting the complete/partial Performance Bank Guarantee (PBG)/Security or any other measures deemed appropriate by the NLCIL management.
- vi. The Successful bidder shall take necessary insurance coverage for installed components and the man power deployed during the CAMC period.

K. PENALTY CLAUSE FOR SITC PERIOD:

1. Any contractor defaults during the SITC stage—such as delays or non-performance, any other breach of contractual obligations or actions that adversely affect system performance or NLCIL operations, invocation of performance security, termination, and risk-and-cost actions—shall continue to remain applicable as per the Time Schedule and Price Reduction Clause provided in the General Conditions.

L. PENALTY CLAUSE FOR MANPOWER:

1. If deployed technical manpower is absent without suitable substitute, penalty shall be imposed at the rate of double of manpower charges per day (applicable turnkey wages notified by NLCIL from time to time) for total period of absence. On repeated occurrence of such absence of deployed manpower during contract period, applicable penal action shall be taken as per General Conditions.

M. PLANNED DOWNTIME:

1. It means any time when the equipment's is unavailable because of maintenance, configuration/reconfiguration or other services with the prior approval of in charge official of NLCIL or his authorized representative. Such services may include but are not limited

to restarting applications, rebooting servers, applying patches or fixes, reconfiguring storage allocation, reloading data and making DNS & firewall changes to close security holes. Planned downtime will not be added to total downtime hours for calculation of availability.

Note:

- i. *In case of repeated and unresolved failures / breakdowns within a specific period, the NLCIL reserves the right to terminate the contract and seek compensation for any losses incurred due to the service disruptions.*
- ii. *The penalty clause shall not absolve the successful bidder from their responsibility to perform regular maintenance and preventive measures to minimize the occurrence of breakdowns.*

N. TIMELY RECTIFICATION OF DEFECTS:

1. In case of breakdown of any hardware/software/components in the ICCC system, the successful bidder has to attend the breakdown and ensure the restoration of the breakdown equipment within the stipulated time to ensure the Guaranteed Availability of the system.
2. However, if the successful bidder fails to restore the said equipment within 05 days from the time of reporting, NLCIL shall have the right to get the equipment restored departmentally or through any other agency. The equipment so restored shall continue to be under CAMC of the existing service provider till the end of the contract period. In such a case of restoration of the equipment departmentally or through any other agency, the cost of such restoration along with 10% handling charges shall be recovered from the running bills, performance security or any other dues of the service provider. If such amount is not directly recoverable from any dues of the service provider, then the service provider shall reimburse NLCIL for the due amount by any means within 30 days of such claims made by NLCIL.
3. Part which has been replaced shall be cleaned of any storage, if any or data before being taken out from the NLCIL premise while keeping the backup after consultation with representative from NLCIL (Officer in charge). No data/storage/device having data should be taken out without prior written permission from the Officer In-charge.
4. During CAMC period, if any equipment is declared end of sale/ end of support/ end of life by the OEM, or the equipment is not available for any other reason, the successful bidder shall be allowed to replace the said equipment with an equipment of equal/higher specifications, and configure it to work in the network seamlessly. The said equipment shall be under CAMC by the service provider till the end of contract period at the same

- rates, terms, and conditions as the previous equipment.
5. The day-to-day record for the breakdown time will be kept at NLCIL HQ as well as NLCIL Mines with representatives of NLCIL for the assessing performance as well as for deducting penalty, if any, during quarterly payment of warranty/CAMC charges of the ICCS system.
 6. All the equipment supplied under this contract should bear manufacturer's name, equipment name, model no, part no. and serial no. different relevant rating and working ranges engraved in a non-corrosive material plate attached permanently to the equipment or engraved on the equipment itself. Wherever applicable, in critical equipment the brief operating instructions and drawings should be engraved /supplied along with equipment.
 7. The equipment offered must be highly reliable and field proven. The equipment supplied should operate without any deviation in quality or degradation of system performance and all the parameters mentioned should be guaranteed over as mentioned in the required technical specifications in the Buyer Specification Document.

O. PRE-COMMISSIONING INSPECTION AND TEST (PART OF INSTALLATION PROGRAM):

1. On installation, the System and its Components will be jointly (in presence of both the successful bidder and NLCIL representatives) tested as follows:
 - i. All equipment and installations will be individually inspected physically.
 - ii. Individual active equipment will be tested with Power. Passive items also will be tested wherever feasible.
 - iii. Different Sub-Systems will be tested wherever feasible.
 - iv. Then, the system will be tested in integrated manner.
 - v. The parameters of testing will be jointly decided keeping in view the technical specifications, scope of work and Special Terms & Conditions of the bid document.
 - vi. For testing the video analytic features of the system, NLCIL shall ensure that there is proper connectivity between the recording/ storage devices (installed in the Project/ Mines) to NLCIL HQ. If connectivity has been established for the recording/ storage device(s) of a particular Mines, then the testing shall be undertaken with the camera feeds of that particular Mines.
 - vii. All the video analytic features shall be tested during inspection. During inspection/testing the all analytics should work on the cameras.

P. TRIAL RUN, SYSTEM ACCEPTANCE & COMMISSIONING:

1. On acceptance of testing of the system, the system will be put under trial run. Trial run of the system will be for a minimum period of seven (07) days or 168 hours out of which

- at least seventy-two (72) hours shall be continuous operation on full load or any other duration as may be agreed to, between NLCIL and the successful bidder.
2. The trial operation shall be considered successful, provided that each item of the equipment can operate continuously at the specified operating characteristics, for the period of trial operation.
 3. The successful bidder should be able to continuously demonstrate the video analytics as mentioned under clause "Pre-Commissioning Inspection and Test" at the desired accuracy.
 4. For the period of trial operation, the time of operation with any load shall be counted. Minor interruptions not exceeding four (4) hours at a time, caused during the continuous operation shall not affect the total duration of trial operation. However, if in the opinion of the NLCIL, the interruption is long, the trial operation shall be prolonged for the period of interruption.
 5. On successful trial run and acceptance of the same by NLCIL, the system will be taken as commissioned and the NLCIL will issue an Installation and Commissioning Certificate for the system installed at NLCIL HQ and NLCIL Mines.
 6. Warranty of the system will be considered immediately after the next date from the date of Commissioning of ICCS System.
 7. During the period between the date of physical installation of equipment and commissioning of the system, the system will be maintained in all respects, including those detailed in the CAMC, by the successful bidder at their own cost.
 8. The successful bidder shall have to provide all desired analytics as detailed in Scope of Work with an accuracy of more than 95% during trial period and that needs to be consistent before commissioning of the system.
 9. Acceptance of the System by NLCIL will not absolve the Successful bidder from all of his liabilities. In addition to whatever has been stated in Bid document, the Successful bidder will be liable for any deficiency in the System traceable to be due to deficiency on the part of the Successful bidder in Supply/Execution or any other aspect, during the warranty and CAMC Period.

Q. HANDOVER OF DOCUMENTATION:

1. On commissioning of the system, the successful bidder will hand-over the following documents, in hard copies (02 Sets) and soft copy (in .pdf or any other acceptable format), to NLCIL.
 - i. Detailed schematic Network diagram of the complete installation.
 - ii. Escalation matrix for service support.
 - iii. Detailed diagram of all sub-systems of the Network.

- iv. Detailed Cable/Wire Network as installed.
- v. All configuration details including different related lists.
- vi. Any license/permission or related documents.
- vii. Test results.
- viii. Any operation and/or maintenance procedures etc.
- ix. List of Equipment supplied/installed and other items used (e.g. Wires/Cables), Software, Portable Equipment and Spares. The list must include Make, Model, Brand, Version, Sl. No. etc., as applicable.
- x. Relevant Manuals, CDs etc.
- xi. Any other relevant document/Information as required as per the Bid document, or, as may be required for operation/maintenance of the system or, otherwise, relating to individual Item/the System.

Note : (1) All the Documents should bear the reference Bid number and Supply Order/ Contract Number of NLCIL have a Heading, and signed with seal by the authorized representative of the Successful bidder. However, any Original Document like License/permissions may be submitted with forwarding letter only from the Successful bidder. All the documents to be submitted to NLCIL within 30 days of Commissioning of the System.

2. NLCIL will have the right to call for any further documents/clarification from the Successful bidder on Products supplied at any stage. The Successful bidder has to submit such documents within required time of receipt of such communication.

R. INSURANCE CONDITIONS:

1. If the period of work is up to one year, the insurance coverage should be for a period of one year or the whole period of contract, whichever is earlier.
2. If the period of work is more than one year, it is the responsibility of the Contractor to keep the Insurance Policy current and valid by making the payment of premium.
3. The Insurance policy should be attached along with the requisition for the temporary pass itself. There should not be any lapse of even a single day at the time of commencement of contract.

S. MAKE & MODEL ALONG WITH TECHNICAL DOCUMENT/OEM DATASHEET FOR ALL ITEMS TO SUPPLIED IN THIS CONTRACT SHALL BE SUBMITTED IN BELOW FORMAT BY THE SUCCESSFUL BIDDER:

S. No.	Item description	Make & model to be submitted by the successful bidder	Offered Make & Model has actual tendered specification	If higher specification product is offered, then whether this product will compatible & fulfill the requirement of complete ICC system of NLCIL.
			(Actual or Higher)	(Yes or No)

Note:

- i. *The successful bidder shall submit manufacturer authorization form (MAF) and all essential regulatory certifications as mandatory for each material to be supplied under this Contract.*
- ii. *Failure to declare MAKE and MODEL of materials quoted and/or non-submission of technical document/OEM Datasheet may lead to rejection of the bid. Successful bidder should not offer Multiple make and Multiple models for the same item as the same may lead to rejection of the bid.*
- iii. *In order to participate in the bidding process, it is imperative for the successful bidder to provide a precise identification of the MAKE and MODEL for the items listed in this contract.*

For instance, when bidding for an air conditioner, the successful bidder must specify a brand such as Voltas or Samsung or LG or Diakin and so on. Similarly, when bidding for furniture, the brands should be clearly mentioned, like Godrej or Cello or Nilkamal, etc.

The use of vague terms like "Reputed" or "Branded," or any other non-specific descriptions, will not be accepted as a valid MAKE specification.

Furthermore, it is essential that successful bidder do not propose multiple brands and models for the same item, as doing so may result/lead in the rejection of their bid.

1. Successful bidder has to submit the self-attested copy of Technical Parameter Sheet (TPS) with required details during submission of documents (**Refer Annexure-I**).
2. The successful bidder has to quote for SITC and CAMC charges for ICC system spelt out in Price Breakup Format (**Annexure-II**).
3. **Documents to be submitted with the supply:**
 - i. Details of person to be contacted in case of after sales requirement, during installation

& commissioning and warranty period. (ii) Technical literature (if any) of the offered supplied items may be submitted.

(Note: In case of any ambiguity / conflict with the GeM standard Terms & Conditions, details mentioned in this document shall supersede.)

T. Security Deposit/Bank Guarantee:

1) Security Deposit shall be applicable as per the terms and conditions given in the General Conditions.

2) (i) Validity of the Bank Guaranty (BG) (10% of the LOA value) for warranty shall be kept valid from the commencement of the Warranty till the end of the warranty period.

(ii) Validity of the Bank Guaranty (BG) (10% of the LOA value) for CAMC shall be kept valid from the commencement of the CAMC till the end of the contract period.

ANNEXURE-I

TECHNICAL PARAMETER SHEET (TPS)

Name of the Work:

Supply, Installation, Testing & Commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with Video Management Software (VMS) and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL Headquarter (HQ), along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP cameras with three years warranty from the next day of commissioning and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions

S. No.	Technical details / information required along with the bid	Required confirmation Values (Yes/No) / Relevant details input required from bidder
1	Details of bidder	Name: Email id for official correspondence: Contact Nos.: Address:
1.1	Name of Manufacturer / OEM of tendered item (i.e, VA Software and VMS Software)	i. For VA Server ii. For VMS Server
1.2	Name of the participating bidder	
1.3	Status of participating bidder for the tendered item (VA Software and VMS Software) as: OEM or Authorized dealer or Start-up/MSE Manufacturer or Non-start-up & Non MSE Manufacturer	

1.4	Name of documents attached by the bidder	1.
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ANNEXURE-II
PRICE BREAKUP FORMAT

S. No.	Item	Value in Rs.	Remarks
1	Supply, Installation, Testing & Commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with Video Management Software (VMS) and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL Headquarter (HQ), along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP cameras along with necessary licenses and permissions with three years warranty from the next day of commissioning	A	The bidder shall enter the individual rate against each BoQ item (List provided as Annexure here) and the aggregate of these values shall constitute the SITC value to be entered here. Charges towards manpower deployment during the SITC and warranty periods shall not be reimbursed separately, and therefore the SITC value quoted shall be inclusive of these costs. Bidders are advised to quote accordingly.
2	Three years of CAMC from the next day of completion of warranty	B	The bidder shall quote the CAMC charges year-wise, at a minimum of 10% of the total bid value (excluding GST) for each year.
	Total Bid Value excluding GST	C = A+B	
	Applicable GST	D	
	Total Bid Value including GST	C + D	

Annexure-A

SITC Charges

Sl.No.	Description	Qty	UoM	Unit Rate (without GST)	Total Cost (without GST)	GST	Total Cost in Rs. (with GST)
1	SITC of Workstation having Intel Core i7 - 14th Generation, 16GB DDR RAM, NVIDIA 4GB Graphics Card, 1TB SSD Hard disc drive, Windows 11 pro OS.	10	Nos.				
2	SITC of Server having 2x 24-core/48-thread(48C,96T), 2.6GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM, 2x 1 TB SSD in RAID1 configuration for OS & VMS, 2 x 2TB SSD HDD for Alerts/event and Incident snapshots, 4x Nvidia L4 (24 GB) or better, 4x1G/10G Server Adapter (loaded) or more, linux OS-latest version (suitable for AI & ML based Video Analytics Software).	5	Nos.				
3	SITC of 32 Channel Network Video Recorder with minimum 15 days backup.	20	Nos.				
4	SITC of 27 U Rack .	5	Nos.				
5	SITC of Interior for local station.	5	Nos.				
6	ESE lightning protection system complete with all components including multi strand copper down conductor, 02 Nos. earth pits with earth electrode as well as chemical back filling compound, lightning strike counter meter and ESE air terminal and all pipes and fixtures for installation.	6	Nos.				
7	SITC of 2MP PTZ Camera IR range min. 500mtrs, 45x optical zoom.	45	Nos.				
8	SITC of IP Based 4MP Box camera with IR 150Meter for ANPR VA.	1	Nos.				
9	SITC of IP based 4MP 150mtr IR bullet camera.	104	Nos.				
10	SITC of RF Modems - (i) POINT TO POINT WIRELESS DEVICE (RF) with built-in internal antenna 5GHz 200Mbps 15dBi Outdoor @ 3 km distance or better. (ii) POINT TO POINT WIRELESS DEVICE (RF) with external antenna 5GHz 800Mbps 23dBi Outdoor @ 15 km distance or better.	49	Nos.				

Sl.No.	Description	Qty	UoM	Unit Rate (without GST)	Total Cost (without GST)	GST	Total Cost in Rs. (with GST)
11	Outdoor Pole 6 Mtrs.	32	Nos.				
12	Outdoor Towers 30 mtrs	15	Nos.				
13	Outdoor Weather Proof Rack to place Switch & other accessories	49	Nos.				
14	SITC of 8 port POE industrial grade Gigabit switches with 2 SFP Ports loaded.	49	Nos.				
15	SITC of IP Horn Speakers for Outdoor.	193	Nos.				
16	SITC of IP Column Speakers for Indoor.	5	Nos.				
17	SITC of CAT6 23 AWG Cable tested upto 700 Mhz.	5000	Mtrs.				
18	Suitable PVC conduit for CAT6 cable	5000	Mtrs.				
19	SITC of Single Mode Optic Fibre cable 12 core.	1000	Mtrs.				
20	SITC of 24 Port LIU loaded.	25	Nos.				
21	SC-LC Pigtails	36	Nos.				
22	SC-LC Patch cords	36	Nos.				
23	HDPE Conduit for optic fibre cable	1000	Mtrs.				
24	SITC of IP based paging Microphone with Touch Screen.	5	Nos.				
25	SITC of Base License Supports Licenses for Video Management Software at Mines.	5	Nos.				
26	VMS per Channel License - For Individual Mines	500	Nos.				
27	Cost of Supply, installation and commissioning charges including System Integration	1	LS				
28	SITC of 3T industrial Air conditioner (24/7).	14	Nos.				
29	SITC of 75" LED display (24/7).	5	Nos.				
30	SITC of 5KVA Online UPS with 4hours backup with SNMP card for remote monitoring.	5	Nos.				

Sl.No.	Description	Qty	UoM	Unit Rate (without GST)	Total Cost (without GST)	GST	Total Cost in Rs. (with GST)
31	SITC of Server with Video Management Software & ICCC Platform, 2x 16-core/32-thread(32C,64T), 2.1 GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM,2x 1 TB SSD in RAID1 configuration for OS & VMS, 5 x 2TB SAS HDD for Additional Storage for Logs/Events snapshots, Dual Port 10G Server Adapter (loaded),Windows Server -2019/2022, (Video Management System for management & recording of 500 cameras with scalability up to 50%. Total Cameras (750 numbers) Integrated Command & Control Centre (ICCC) Platform for Centralized Dashboarding, incident Management& Dashboard Viewing Licenses and integration with CCTV, GPS-based Vehicle Tracking Systems (VTS), Fuel Management Systems (FMS) and other relevant technologies.).	2	Nos.				
32	SITC of Server with Failover Video Management Software &ICCC (N+1), 2x 16-core/32-thread(32C,64T), 2.1 GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM, 2x 1 TB SSD in RAID1 configuration for OS & VMS, 5 x 2TB SAS HDD for Additional Storage for Logs/Events snapshots, Dual Port 10G Server Adapter (loaded) [Failover Video Management and Video Recording System & ICCC (N+1)].	1	Nos.				

Sl.No.	Description	Qty	UoM	Unit Rate (without GST)	Total Cost (without GST)	GST	Total Cost in Rs. (with GST)
33	SITC of Server with AI and ML based Video Analytic Software, 2x 24-core/48-thread(48C,96T), 2.6GHz clock rate, Intel Xeon Processor, 128 GB DDR RAM, 2x 1 TB SSD in RAID1 configuration for OS & VMS, 2 x 2TB SSD HDD for Alerts/event and Incident snapshots, 4x Nvidia L4 (24 GB) or better,4x1G/10G Server Adapter (loaded) or more, Ubuntu-v20.04 OS (AI & ML based Video Analytics Software 474 analytics use-case for the following use-cases - ANPR: 98 numbers - Crowd Detection: 36 numbers - PPE Detection(Safety Helmet, Safety Jacket, Safety Kit, Black Safety SHoes):193 numbers - Smoke/Fire Detection: 62 numbers - Vehicle Classification: 37 numbers - Zone Intrusion: 48 numbers Offered Video Analytics Server has additional capability of scaling upto 50%. Total Analytics use case is 657numbers).	5	Nos.				
34	SITC of NAS with 90 days storage capacity.	1	Nos.				
35	SITC of 24 Port Fiber Switches with Modules.	2	Nos.				
36	SITC of SD-WAN Hub CPE Appliance in DC and DR with 24x7 support, bandwidth and subscription services as per specification (i) 1 Gig SX SFP transceivers-8 nos. (ii) 10 Gig SR SFP+ transceivers-4 nos. (iii) 25 Gig or 40 Gig SR Transceivers-4 nos. (iv) suitable Centralized Analytics Appliance with 24x7 support with suitable Storage provision as per specifications (v) suitable Centralized Management / Orchestration / Controller Appliance with 24x7 support with suitable licenses.	6	Nos.				
37	SITC of 24 port layer 3 Manageable switch.	4	Nos.				
38	SITC of Server Smart racks 42U.	3	Nos.				
39	SITC of Interior for ICCQ HQ, Neyveli .	1	LS				

Sl.No.	Description	Qty	UoM	Unit Rate (without GST)	Total Cost (without GST)	GST	Total Cost in Rs. (with GST)
40	SITC of PA System centralized server cum accessories.	1	Nos.				
41	SITC of Base License Supports Licenses for Video Management Software & AI Based Video Analytics Software at I CCC HQ, Neyveli .	1	Nos.				
42	VMS per Channel License - ICCO HQ, Neyveli	500	Nos.				
43	Failover VMS per Channel License - For ICCO HQ, Neyveli	500	Nos.				
44	Automatic Number Plate Recognition (ANPR) Analytical Software.	98	Nos.				
45	AI Based Video Analytics per channel License for Crowd Detection & Estimation for Crowd Management.	36	Nos.				
46	AI Based Video Analytics per Use-Case License for the Following Use-Cases PPE Detection (Safety Helmet, Jacket, Harness, Mask).	193	Nos.				
47	AI Based Video Analytics per channel License for Fire/Smoke Detection.	62	Nos.				
48	AI Based Video Analytics per channel License for Intrusion detection.	37	Nos.				
49	AI Based Video Analytics per channel License for Vehicle Classification.	48	Nos.				
50	Central Dashboard for Health & Incident Management system	1	Nos.				
51	Integration plugin for following systems for below systems GPS-based Vehicle Tracking Systems (VTS), Fuel Management Systems (FMS)	1	Nos.				
52	SITC of 8*12 ft. LED WALL with 24 input controller & all accessories.	1	Nos.				
53	SITC of 20 KVA ONLINE UPS - four(4) hours backup with redundancy.	2	Nos.				
Total							
3 Years of CAMC Charges							
1	CAMC Charges for the 1st year	1	LS				

Sl.No.	Description	Qty	UoM	Unit Rate (without GST)	Total Cost (without GST)	GST	Total Cost in Rs. (with GST)
2	CAMC Charges for the 2nd year	1	LS				
3	CAMC Charges for the 3rd year	1	LS				
TOTAL							

Remark:	<p>1. The quantity mentioned for item no. (8)"(IP Based 4MP Box camera with IR 150Meter for ANPR VA)" is only for indication purpose. As per site requirement, the successful bidder shall supply the required quantity of item no. 8 (IP Based 4MP Box camera with IR 150Meter for ANPR VA) and the same shall be reduced from the total quantity of item number 9 (IP based 4MP 150mtr IR bullet camera).</p>
	<p>2. The two types of RF modems and quantity shall be as per the site requirement.</p>
	<p>3. The bidders shall quote the CAMC charges for each year minimum @10% of Total bid value(excluding GST)</p>
	<p>4.SITC and CAMC Charges shall be inclusive charges for deployment of technical manpower.</p>

CHECK LIST - 2

This work does not contain schedule-II provisions (i.e., the Total Schedule-II tender value is "NIL") and hence there will not be any reimbursement of statutory payments etc., that the contractor is liable to pay to their workmen. In this regard, the following undertaking is to be given, in relevant online form, while submitting the bid, for having accepted the above condition:

Undertaking by the Tenderer:

"We hereby undertake and certify that the statutory obligations under various statutes, amended from time to time, including minimum wages specified from time to time, EPF coverage, Labour License, Group Insurance, Bonus etc., applicable for contract establishment of our company are maintained by our company for our employees, who are deputed to undertake works for Mines in NLC India Limited. We are aware that NLCIL is not liable for any reimbursement of expenses towards such statutory obligations".

Annexure-III

Make & Model along with technical document/OEM Datasheet for all items to supplied in this contract shall be submitted in below format by the bidder:					
1	SN.	Item description	Make & model to be submitted by the bidder.	Offered Make & Model has actual tendered specification or higher specification	If higher specification product is offered, then whether this product will compatible & fulfill the requirement of complete ICC system of NLCIL.
				(Actual or Higher)	(Yes or No)
2	The bidder shall submit manufacturer authorization form (MAF) and all essential regulatory certifications as mandatory for each material to be supplied under this Contract.				
3	Failure to declare MAKE and MODEL of materials quoted and/or non-submission of technical document/OEM Datasheet may lead to rejection of the bid. Bidder should not offer Multiple make and				
4	<p>In order to participate in the bidding process, it is imperative for the bidder to provide a precise identification of the MAKE and MODEL for all items listed in this contract For instance, when bidding for an air conditioner, the bidder must specify a brand such as Voltas or Samsung or LG or Daikin and so on. Similarly, when bidding for furniture, the brands should be clearly mentioned, like Godrej or Cello or Nilkamal, etc. The use of vague terms like "Reputed" or "Branded," or any other non-specific descriptions, will not be accepted as a valid MAKE specification.</p> <p>Furthermore, it is essential that bidders do not propose multiple brands and models for the same item, as doing so may result/lead in the rejection of their bid.</p>				

Bidder has to submit the self attested copy of Technical parameter sheet (TPS) in the format given below with required details during submission of documents

Technical parameter sheet (TPS)

SN	Technical details / information required along with the bid	Required confirmation Values (Yes/No) / Relevant details input required from bidder
1	Details of bidder	Name: Email id for official correspondence: Contact Nos: Address:
2	Name of Manufacturer / OEM of tendered item (i.e, VA Software and VMS Software)	i. For VA Server, Name of Manufacturer / OEM ii. For VMS Server, Name of Manufacturer / OEM
3	Name of the participating bidder	
4	Status of participating bidder for the tendered item (VA Software and VMS Software) as:	OEM or Authorized dealer or Start-up/MSE Manufacturer or Non start-up & Non MSE Manufacturer
5	Name of documents attached by the bidder	1. 2. . .

1. Video Management Software & ICCS Server and Failover Server (N+1)

S.No	Category	Parameter	Minimum Required Specification
1	Core Processing and Memory	Processor	2x 16-core/32-thread (32 Cores, 64 Threads) total, with a minimum clock rate of 2.1 GHz, based on Intel Xeon Processor technology or better.
2		Memory (RAM)	128 GB or higher.
3		Inbuilt Database	MySQL or equivalent licensed database (if required for VMS/ICCC).
4	Storage and RAID Controller	RAID Controller	On-board SAS/SATA/NVMe controller supporting RAID: 0/1/5/10/6 with a minimum of 4 GB Flash Cache or better/higher speed cache.
5		OS & App Storage	2x1 TB SSD in RAID1 configuration (for OS and i2V Application).
6		Database/Logs Storage	10 TB (SSD/HDD) dedicated storage for Database and Logs/Events snapshots.
7		Bays	8 Bays or higher capacity bays.
8	Mechanical, Interfaces, and Power	Form Factor	2U Rack Mountable Cabinet Type.
9		Network Interface	Dual Port 10G Server Adapter (loaded) or better.
10		PCI Slots	Minimum 2 PCI slots or higher.
11		USB Ports	Minimum 3 USB ports with at least one supporting 3.0 standard.
12		Power Supply	Hot-pluggable
13		System Fans	Fans (hot-swappable)
14	System Software and Manageability	Operating System	Windows Server 2022/2025 or higher (licensed OS required).
15		Manageability	Server Management Software must be of the same brand as the server supplier. Features must include Virtual KVM / Graphical Console, Virtual Folders, and Virtual Media (USB flash drive and image).
16		Monitoring & Alerting	Monitor and Alerting on key internal server components including: CPUs, memory, temperatures, fans, RAID controllers, hard drives (including cache modules), and power supplies.
17	Industry Standards and Security	Standard Compliance	Must be compliant with PCIe 5.0, PXE support, and USB 3.0 Support or better/more recent standards.
18		Security	Must support Secure Boot & Start, Secure Erase, Silicon Root of Trust, Tamper free updates, and TPM 2.0 (Trusted Platform Module) support. All components must be digitally signed and verified.
19	Lifecycle Assurance	End of Sale (EOS)	The server should not become End Of Sale during the one-year validity of the Rate Contract.
20		End of Support (EoS)	The server should not become End of Support for seven years from the date of execution of the Contract. If EoS is announced, an Equivalent or improved configuration must be provided without any additional cost.

2. AI and ML based Video Analytic Server

S.No	Category	Parameter	Minimum Required Specification
1	Core Processing, Memory, and Acceleration	Processor	2x 24-core/48-thread (48 Cores, 96 Threads) total, with a minimum clock rate of 2.6 GHz, based on Intel Xeon Processor technology or better.
2		Memory (RAM)	128 GB or higher.
3		GPU/Graphics Card	4x Nvidia L4 (24 GB) or better/higher performance and VRAM capacity for parallel processing.
4		Inbuilt Database	MySql / PostGreSQL or equivalent licensed database.
5	Storage and RAID Controller	RAID Controller	On-board SAS/SATA/NVMe controller supporting RAID: 0/1/5/10/6 with a minimum of 4 GB Flash Cache or better/higher speed cache.
6		OS & App Storage	2x1 TB SSD in RAID1 configuration (for OS and i2V Application).
7		Database/Logs Storage	10 TB (SSD/HDD) dedicated storage for Database and Logs/Events snapshots.
8		Bays	8 Bays or higher capacity bays.
9	Mechanical, Interfaces, and Power	Form Factor	2U Rack Mountable Cabinet Type.
10		Network Interface	4x1G/10G Server Adapter (loaded) or more.
11		PCI Slots	Minimum 2 PCI slots or higher.
12		USB Ports	Minimum 3 USB ports with at least one supporting 3.0 standard.
13		Power Supply	Hot-pluggable
14		System Fans	Fans (hot-swappable)
15	System Software and Manageability	Operating System	Licensed Windows Server/Ubuntu or equivalent (latest version or as required for AI/ML application compatibility).
16		Manageability	Server Management Software must be of the same brand as the server supplier. Features must include Virtual KVM / Graphical Console, Virtual Folders, and Virtual Media.
17		Monitoring & Alerting	Monitor and Alerting on key internal server components including: CPUs, memory, temperatures, fans, RAID controllers, hard drives (including cache modules), and power supplies.
18	Industry Standards, Security, and Lifecycle	Standard Compliance	Must be compliant with PCIe 5.0, PXE support, and USB 3.0 Support or better/more recent standards.
19		Security	Components digitally signed and verified, Secure Boot & Start, Secure Erase, Silicon Root of Trust, Tamper free updates, and TPM 2.0 (Trusted Platform Module) support.
20		End of Sale (EOS)	The server should not become End Of Sale during the one-year validity of the Contract.
21		End of Support (EoS)	The server should not become End of Support for seven years. If EoS is announced, an Equivalent or improved configuration must be provided without any additional cost.

3. Network Attached Storage with Minimum 90 days Storage Capacity			
S.No	Category	Parameter	Minimum Required Specification
1	Architecture and Scalability	Architecture Type	Must be based on a scale-out multi-controller architecture for all supported NAS protocols.
2		Controller Support	Must support mixing of controllers within the same generation and across generations of controller models within the same cluster.
3		Active Design	The system must be Active/Active architecture, providing a single namespace spanning across 4 or more controllers where data is accessible from all controllers.
4		Vendor Rating	Offered Vendor platform must be rated in the Leader's quadrant of Gartner Magic Quadrant for File and Object Storage platforms for the past 3 years.
5		Scalability (Controllers)	Must be scalable to 20 or more controllers within the cluster.
6		Scalability (Capacity)	Must be scalable to at least 5 PiB in a single namespace. Minimum 90 days Storage or better.
7	Configuration, Capacity, and Performance	Configuration	Must be provided with a minimum of 4 controllers.
8		Usable Capacity	Minimum 500 TiB usable capacity after considering all data protection overheads. The entire capacity must be available as a single namespace.
9		Write Throughput	Minimum of 3.5 GB/s (Giga Bytes per second) of Write throughput (100% writes).
10		Read Throughput	Minimum of 5 GB/s of Read throughput (100% Reads).
11		File System Scale	Must support a minimum of 2 billion files in a single directory or folder.
12		Cache	Must have NVMe based cache of at least 3 TB per controller (minimum 12 TB across the cluster) to cache hot data.
13	Protocols and Snapshots	RAID	RAID 6 configuration with one global hot spare or better.
14		NAS Protocols	Must support NFS v3 & v4.1, SMB 2.1, 3.1 and higher versions, and S3 protocols.
15		Cross Protocol	Must support cross protocol permission access across SMB and NFS.
16		Export/Share Capacity	Must provide a minimum of 64,000 NFS exports and 40,000 SMB shares.
17		Snapshots	Must support a minimum of 20,000 Redirect on Write snapshots without any performance impact to Client I/O.
18		Immutability	Must support time-based retention of snapshots with immutability to prevent accidental or malicious deletion of data.
19	Connectivity, Data Protection, and Management	Per-Controller Ports	Each Controller should have a minimum of 2x 10/25 GbE Ethernet Ports.
20		Cluster Ports	A minimum of 8x 10/25 GbE Ports across the cluster is required.
21		Replication	Must be provided with required Licenses for Asynchronous Replication to another site, secured by end-to-end encryption over a WAN link.
22		Data Encryption	Must provide data-at-rest AES-256 bit encryption with an On-board Key Manager or External Key Manager.
23		Availability	Must be a No-Single-Point of Failure design and provide 99.9999% of availability with scale-out architecture for all protocols.
24		Management	Must provide management and monitoring functions for: performance monitoring, capacity utilization, alerts, configuration of data protection (snapshots), and reporting (File system analytics, capacity usage, File activity trends).

4. Layer 3 Ethernet SFP Switch			
S.No	Category	Parameter	Minimum Required Specification
1	General and Hardware Specifications	Port Configuration	Must include a minimum of 20 x 1G SFP ports or more, including at least 4 x Combo 10/100/1000BASE-T/SFP ports and at least 4 x SFP+ ports (10G) or better.
2		Performance	All ports shall operate at wire-speed / line-rate or better performance.
3		Stacking	Must be stackable with a minimum stacking bandwidth of at least 80 Gbps or higher. Must support stacking of at least 9 units or higher or an equivalent high-availability clustering technology.
4		Power Supply	Must include an Internal Universal Power Supply (AC Input: 100 to 240 VAC,50/60 Hz or wider) and be loaded with a Internal Redundant Power Supply (RPS) from Day 1 or a suitable equivalent high-availability solution.
5		Management Ports	Must include: 10/100/1000BASE-T RJ-45 Ethernet port for out-of-band IP management, and RJ45/RS-232 and Mini USB console ports or wider/more modern console options.
6		External Alarms	Must provide an alarm circuit for external alarm detection (2 input, 2 output) or better/more. Must have facility for logs and traps configuration for external alarms.
7		Storage/Boot	Must have an open slot for a USB flash drive or equivalent, for portable firmware images and configuration files upload or download.
8		Environmental	up to +50 deg C or wider/better.
9		Surge Protection	All Gigabit Ethernet ports should have inbuilt IEC 61000-4-5 surge protection (6kV) or better.
10		OAM	Must support IEEE 802.1ag/ITU-T Y.1731 (OAM), 802.1ag CFM, Optical Transceiver Digital Diagnostic Monitoring (DDM), and Dying Gasp or a wider range of equivalent industry-standard OAM features.
11	Layer 2 Features	Spanning Tree	Must support 802.1d, 802.1p, 802.1Q, 802.1s (MSTP), 802.1w (RSTP) or wider, including edge port in STP/RSTP/MSTP mode and spanning-tree root guard or better.
12		Ring Protection	Must support Ethernet Ring Protection Switching (ERPS) (ITU-T G.8032) or equivalent industry-standard ring protection protocol.
13		Link Aggregation	Must support IEEE 802.3ad and Link Aggregation Protocol (LACP) or better/wider.
14		Multicast	Must support IGMP v1, v2 & v3 as well as IGMP v1, v2 & v3 snooping. Must support Multicast VLAN Registration (MVR).
15		Loop/Link Detection	Must support Detection of Unidirectional Links (UDLD or equivalent) to disable them and avoid loops. Must support Loopback Detection (LBD) and 802.3ah link layer remote loopback and discovery or better/wider.
16		Other L2	Must support 802.1x, 802.1ab, and Port-spanning functionality or wider.
17	Layer 3 Features and Routing	IP Protocol Support	Must operate on both IPv4 and IPv6 (dual stack) from day one. Must support Duplicate Address Detection (DAD).
18		Redundancy	Must have HSRP/VRRP or an equivalent first-hop redundancy protocol from day one.
19		Unicast Routing	Must support IP unicast routing capability including Static, RIPv1, RIPv2, and OSPFv3 protocols or wider. Must support IPv6 routing in hardware including RIPng, and RFC2740 for OSPF for IPv6 or better.
20		Advanced Routing	Must support Policy-Based Routing (PBR), Bidirectional Forwarding Detection (BFD), IP Directed Broadcast, and advanced routing protocols like Border Gateway Protocol Version 4 (BGPv4) and BGP+ (support multi-address family) or wider.
21		Multicast Routing	Must support Protocol Independent Multicast (PIM) for IP Multicast routing, including PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM), PIM sparse-dense mode, PIM-SMv6, DVMRP v3, and MSDP or wider.
22		Other L3	Must support IS-IS v4/V6, MPLS, and VRF (Virtual Routing and Forwarding) or wider.
23	Management and Security	Management Access	Must support CLI, Telnet, and SSH V-2 for command-line management.
24		Standard Protocols	Must support SNMPv1, SNMPv2, and SNMPv3. Must support NETCONF / YANG / Sflow modelling for software defined networking or wider standard APIs.
25		MIBs	Must support all the standard MIBs (MIB-I & II).
26		Troubleshooting	Must have Layer 2 trace route to ease troubleshooting and support Domain Name System (DNS) client and relay support for IPv4/IPv6 or wider/better diagnostic features.
27		Software Management	Must support Trivial File Transfer Protocol (TFTP) and File Transfers Protocol (FTP) or better secure protocols (e.g., SFTP/SCP) for managing software upgrades.
28		User Access	Must support various user level access with minimum privileges allowing: PING, TELNET, L3 TRACEROUTE, L2 TRACEROUTE, display of interface statistics/descriptions, display of Dynamic ARP table, MAC Address table, and Routing Table or wider/more granular access control.
29	Certification	Certifications	(FCC / CE / UL), RoHS, (TEC / MTCTE)

5. Workstation

S.No	Category	Parameter	Minimum Required Specification
1	Core Hardware Components	Processor (CPU)	1 x Intel® Core™ i7-14700 (Cores: 20, Threads: 28, Base Frequency: 2.10 GHz, Cache: 33 MB) or Higher/Better latest generation equivalent.
2		Motherboard & Chipset	Chipset W680 or Higher/Better professional-grade chipset.
3		Required Memory (RAM)	16 GB DDR5 4800 MT/s or Higher/Better speed and capacity.
4		Graphics Card (GPU)	Nvidia Quadro 4 GB Graphics Card or Higher/Better professional workstation-grade GPU.
5		Storage Capacity	1 TB SSD (Solid State Drive) or Higher/Better capacity and performance (NVMe/PCIe).
6	Connectivity and Peripherals	Network Interface	1 Gigabit Ethernet network interface or faster.
7		USB Ports	Minimum 4 USB Ports (mix of 3.0/3.2 or 2.0) or more.
8		Display Ports	Minimum 1 x HDMI and 1 x DP (DisplayPort) output ports or more.
9		Display Monitor	19.5" Display or larger/better (FHD resolution)
10		Operating System (OS)	Licensed Windows 11 Pro (64 bit) or equivalent preloaded operating system.
11	Accessories, Warranty, and Certification	Essential Accessories	Must include USB keyboard & mouse (standard professional quality).
12		Power Backup	Must include a 1 KVA UPS (Uninterruptible Power Supply) with a minimum of 30 Minutes Backup time or longer/better capacity.
13		Security Software	Must include Antivirus software license for full contract period.
15		General Certifications	Must possess the following certifications (Copies should be enclosed with the bid): Hazardous - RoHS; Energy efficient - Energy Star; Safety - CE/UL; Environment – EPEAT and TCO Certification for Monitor.

6. SD-WAN at NLCIL HQ Neyveli

S.No	Category	Parameter	Minimum Required Specification
1	General Solution, Architecture & Security Requirements	Core Capability	Must be L7 application-aware, offering automatic WAN path control, multi-WAN underlay support, and integrated NGFW security with Real-time SSL/TLS Inspection and Layer 7 Firewalling/Application Control.
2		Resilience	SD-WAN solution must have self-healing capabilities for enhanced user experience.
3		Architecture	True software-defined network architecture with centralized control/management plane (Controller/Orchestrator) and logical separation of control, management, and data planes.
4		Appliance Integration	Hub and Branch CPEs must have SD-WAN and Layer 7 Firewall/Application Control features on the same appliance.
5		OEM Consistency	Hardware and software for Hub and Branch CPEs must be supplied by the same SD-WAN Vendor. TAC support must be by the same SD-WAN Vendor.
6		High Availability (HA)	All traffic processing components, including the Hub CPEs (which must be quoted in HA), must support High Availability where necessary.
7		Hosting/Data Privacy	All components of the SD-WAN solution must be hosted On-premises. No Organization business data (including logging/scanning) should go to the OEM premises or Cloud. OEM declaration is mandatory.
8		CPE Feature Parity	Hub and Branch CPE appliances must have the same OS and license features across locations.
9		Security Suite	Hub and Branch CPEs must be supplied with Advanced Security features (IPS, AntiMalware, AntiBotnet, and Malicious URL filtering) supporting the required bandwidth.
10		Encryption & Interoperability	Must support Standards based IPsec (IKEv1 and IKEv2) connectivity with a third-party device and from a Remote IPsec Endpoint PC/Laptop.
11		Licensing	Licenses must be provided for the entire duration requested. Maximum bandwidth license for the unit must be quoted for unplanned future bandwidth upgrades.
12	SD-WAN & Path Optimization Specifications	Multi-WAN & Overlay	Support for multi-WAN underlay (MPLS, DIA, LTE, etc.) with multiple active-active Overlay tunnel support.
13		Intelligent Path	Intelligent WAN path control based on L7 applications and Application SLA based path selection. Supports active/active and active/standby forwarding.
14		Application Steering	Must support 5000+ application signatures and custom application signatures for steering.
15		Dynamic Tunnels	Branch-to-Branch On-demand Encrypted overlay tunnels (dynamic VPNs) must be supported. Tunnels must automatically tear-down when no traffic flows to conserve resources.
16		SLA Monitoring	Must measure SLAs (latency, jitter, packet-loss) with built-in automatic fail-over. Must support Active (Ping, TCP/UDP, HTTP) and Passive SLA monitoring.
17		VoIP SLA	Support Mean Opinion Score (MOS) based SLA tracking for Voice Traffic with automatic link fallback when the MOS threshold is crossed.
18		Failover Speed	Active Probe Check interval configurable as low as 20 ms for seamless failover of real-time traffic (VoIP/Video).
19		Packet Loss Remediation	Dynamic Forward Error Correction (FEC) is mandatory for packet loss compensation. Correction packet size must automatically and progressively increase with loss.
20		Zero Packet-Loss	On-demand Packet duplication across two or more links, enabling only when the SLA fails on the selected link.
21		QoS & Shaping	CPE must support Traffic Shaping based on application/user limits, DSCP marking, DiffServ, WRED queuing, and Interface based Traffic Shaping based on percentage value for Ingress and Egress traffic. Shaping must apply only when the link is congested.
22		Routing & Segmentation	Support for Static, iBGP, OSPF v2/v3, RIP v2, eBGP, VRF, route redistribution/leaking/aggregation, and end-to-end VRF based segmentation over a single overlay tunnel.
23	Advanced Routing	Must support MP-BGP EVPN with VXLAN (RFC 7348).	
24	Security (NGFW) Specifications	Decryption	On-device full SSL/TLS decryption (including TLS v1.3) to identify Custom L7 applications for SD-WAN steering.
25		Policy Granularity	Firewall rules must support IP, FQDN, Device, MAC, User/Group (integrated with MS-AD, LDAP, RADIUS), and Geo IP Source/Destination.
26		Threat Intel	Support retrieving External Block list (IOCs) for Domain Names, Web Filtering URLs, IP Address, and Malware Hashes for use in Firewall policies.
27		DoS/DDoS	Support IPv4 and IPv6 Rate based DoS protection. Hub CPE must have Hardware based DDoS Host Protection for appliance defense.
28		Botnet/Malware	Support Botnet server IP based blocking (global reputation DB), Botnet Domain based blocking ("Fast flux"), and blocking HTTPS based Botnet/Malware using certificate blacklist.
29		URL Filtering	Enterprise-class URL filtering with multiple categories, Malicious URL blocking, user overrides, local categories, and search engine keyword logging.
30	IoT/OT Security	NGFW must support IoT-specific IPS signatures and virtual patching. IPS engine must identify 50+ OT specific network protocols (e.g., Modbus) with 1,800+ unique application control signatures.	
31	Central Hub Aggregator CPE Specifications	Hub Throughput	20 Gbps of Traffic Throughput (10 Gbps in each direction) with encryption and logging enabled, supporting SD-WAN and L7 Firewall inspection from Day 1.
32		Tunnel Scale	Must support termination and aggregation of overlay tunnels from up to 50 branches in the future.
33		Upgrade Path	Must have basic security features with the capability to be upgraded to Advanced Security features (IPS, AntiMalware, etc.) with a license only, without incurring any hardware upgrade.
34		High Availability	The device is to be quoted in High Availability (two identical units) with required licenses.
35		Port Density	Each device must have 8x10 GE SFP+ slots and 8x RJ45 Gigabit ethernet ports for WAN and LAN. 8x10 Gig SR Transceivers to be provisioned for each device.
36	Hardware Specs	Dedicated 1 GE RJ45 Port for Management. Dual Redundant, Hot-swappable Power supply. Secure crypto processor/TPM for securely storing keys.	
37	Centralized Management & Orchestration (Controller)	Deployment	Must be a Physical appliance, Virtual Appliance, or Software based (if software, OS and hardware must be bundled).
38		Virtualization	VM based platform supporting VMware ESXi v6.5+, Microsoft Hyper-V, Citrix XenServer, KVM, and Nutanix AHV.
39		Functionality	Single console to manage/orchestrate/control all SD-WAN and Security features, streamline provisioning, distribute updates, and backup configurations.
40		Provisioning	Must provision SD-WAN CPE Devices from a single console using templates.
41		Monitoring	Must provide enhanced monitoring of link status, application performance, bandwidth, and SLA targets with a Geo Map showing color-coded overlay health.
42		Administration	Must support HTML5 based Web UI as well as CLI (SSH). Web UI must have provision to restrict Admin access from certain IP addresses.
43		Security Updates	Must support downloading and supplying Essential updates (App/Security/Geo DB/Web Filtering) from day 1, with the option for manual download and upload.
44	Centralized Logging & Analytics Solution	Log Retention	Analytics appliance must retain logs for 180 days, after which it should upload logs for long-term archival via FTP/SFTP.
45		Log Capacity	Must support concurrent logging from up to 50 SD-WAN CPE devices.
46		Visualization	Must provide customizable interactive Dashboard, Drill-down capabilities, superior Visualization with graphical charts, and a geographical Threat Map.
47		Correlation	Must have an Automated Correlation Engine to identify suspicious traffic patterns and present a prioritized list of compromised hosts.
48		Reporting	Must have built-in, highly customizable report templates. Must run reports on-demand or on a schedule with automated email (HTML and PDF) without manual intervention.
49		SOC/Threat Mapping	Must have a NOC/SOC view with centralized monitoring. Must have a predefined MITRE ATT&CK dashboard. Must automatically create incidents when an outbreak is detected.
50		Integration	Must forward logs to a third-party syslog server, Common Event Format (CEF) server, or a SIEM solution.
51		Enhanced Analytics	Solution must provide enhanced analytics on Bandwidth consumption, SLA metrics (jitter, packet loss, latency), per-application session usage, and detailed threat information (malware signature, infected host, indicator of compromise).
52	Automation	Entire solution (Management and Analytics) must support RESTful API based Configuration/Analytics and integration with Ansible, Terraform, and Python scripts/connectors.	

7. SD-WAN CPE unit at Unit Monitoring Station

S.No	Category	Parameter	Minimum Required Specification
1	Performance and Scalability Specifications	Traffic Throughput	5 Gbps or better with Encryption and logging enabled from Day 1. This must be maintained with SD-WAN and Layer 7 Firewall inspection enabled.
2		Overlay Tunnels	Must support up to 100 overlay tunnels or higher/sufficient capacity to aggregate back to the Hubs.
3		Security Features	Must include basic Security features (Zone-based firewall, Layer 7 Firewall/Application control, SSL/TLS Inspection) and Advanced Security features (IPS, AntiMalware, AntiBotnet, and Malicious URL filtering).
4	Hardware Specifications	Port Configuration	6×1 Gig RJ45 ports and 2×10G SFP+ Slots or better/wider density.
5		Port Flexibility	Any port (RJ45 or SFP+) must be configurable as a WAN or LAN port.
6		Routing Restriction	There must be no restriction of running dynamic routing protocols on any of these ports.

8. Layer 3 Ethernet Switch

S.No	Category	Parameter	Minimum Required Specification
1	General and Hardware Specifications	Switch Type	Fully featured LAYER 3 SWITCH (24 Ports) or better/wider.
2		Port Configuration	Must include a minimum of 20 x 1G Copper ports (10/100/1000BASE-T) or more, including at least 4 x Combo 10/100/1000BASE-T/SFP ports, and at least 4 x SFP+ ports (10G) or better.
3		Performance	All ports in the switch shall operate at wire-speed / line-rate or better performance.
4		Stacking	Must be stackable with a minimum stacking bandwidth of at least 80 Gbps or higher. Must support stacking of at least 9 units or higher or an equivalent high-availability clustering technology.
5		Power Supply	Must include an Internal Universal Power Supply (AC Input: 100 to 240 VAC,50/60 Hz or wider) and be loaded with an Internal Redundant Power Supply (RPS) from Day 1 or a suitable equivalent high-availability solution.
6		Management Ports	Must include: 10/100/1000BASE-T RJ-45 Ethernet port for out-of-band IP management, and RJ45/RS-232 and Mini USB console ports or wider/more modern console options.
7		External Alarms	Must provide an alarm circuit for external alarm detection (2 input, 2 output) or better/more. Must have facility for logs and traps configuration for external alarms.
8		Storage/Boot	Must have an open slot for a USB flash drive or equivalent, for portable firmware images and configuration files upload or download.
9		Environmental	up to +50 deg C or wider/better.
10		Surge Protection	All Gigabit Ethernet ports should have inbuilt IEC 61000-4-5 surge protection (6kV) or better.
11		OAM	Must support IEEE 802.1ag/ITU-T Y.1731 (OAM), 802.1ag CFM, Optical Transceiver Digital Diagnostic Monitoring (DDM), and Dying Gasp or a wider range of equivalent industry-standard OAM features.
12	Layer 2 Features	Spanning Tree	Must support 802.1d, 802.1p, 802.1Q, 802.1s (MSTP), 802.1w (RSTP) or wider, including edge port in STP/RSTP/MSTP mode and spanning-tree root guard or better.
13		Ring Protection	Must support Ethernet Ring Protection Switching (ERPS) (ITU-T G.8032) or equivalent industry-standard ring protection protocol.
14		Link Aggregation	Must support IEEE 802.3ad and Link Aggregation Protocol (LACP) or better/wider.
15		Multicast	Must support IGMP v1, v2 & v3 as well as IGMP v1, v2 & v3 snooping. Must support Multicast VLAN Registration (MVR).
16		Loop/Link Detection	Must support Detection of Unidirectional Links (UDLD or equivalent) to disable them and avoid loops. Must support Loopback Detection (LBD) and 802.3ah link layer remote loopback and discovery or better/wider.
17	Other L2	Must support 802.1x and 802.1ab. Must support Port-spanning functionality for network analyzer measurements or wider.	
18	Layer 3 Features and Routing	IP Protocol Support	Must operate on both IPv4 and IPv6 (dual stack) from day one. Must support Duplicate Address Detection (DAD).
19		Redundancy	Must have HSRP/VRRP or an equivalent first-hop redundancy protocol from day one.
20		Unicast Routing	Must support IP unicast routing capability including Static, RIPv1, RIPv2, and OSPFv3 protocols or wider. Must support IPv6 routing in hardware including RIPng, and RFC2740 for OSPF for IPv6 or better.
21		Advanced Routing	Must support Policy-Based Routing (PBR), Bidirectional Forwarding Detection (BFD), IP Directed Broadcast, and advanced routing protocols like Border Gateway Protocol Version 4 (BGPv4) and BGP+ (support multi-address family) or wider. Must support IS-IS v4/V6 and MPLS from day one.
22		Multicast Routing	Must support Protocol Independent Multicast (PIM) for IP Multicast routing, including PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM), PIM sparse-dense mode, PIM-SMv6, DVMRP v3, and MSDP. Must include VRF (Virtual Routing and Forwarding) support or wider.
23		MVR	Must support Multicast VLAN Registration (MVR) to continuously send multicast streams in a multicast VLAN while isolating the streams from subscriber VLANs/Ports or wider.
24	Management and Security	Management Access	Must support CLI, Telnet, and SSH V-2 for command-line management. Must have a console port with RS-232/RJ-45 interface.
25		Standard Protocols	Must support SNMPv1, SNMPv2, and SNMPv3. Must support NETCONF / YANG / Sflow modelling for software defined networking or wider standard APIs.
26		MIBs	Must support all the standard MIBs (MIB-I & II) or wider.
27		Troubleshooting	Must have Layer 2 trace route. Must support Domain Name System (DNS) client and relay support for IPv4/IPv6 or better.
28		Software Management	Must support Trivial File Transfer Protocol (TFTP) and File Transfers Protocol (FTP) or better secure protocols (e.g., SFTP/SCP) for managing software upgrades.
29		User Access	Must support various user level access with minimum privileges allowing: PING, TELNET, L3 TRACEROUTE, L2 TRACEROUTE, display of interface statistics/descriptions, display of Dynamic ARP table, MAC Address table, and Routing Table or wider/more granular access control.
30	Certification	Certifications	(FCC / CE / UL), RoHS, (TEC / MTCTE)

9. Smart Rack			
S.No	Category	Parameter	Minimum Required Specification
1	General Requirements and Scope of Work	Scope of Work	Complete Intelligent Integrated Smart Rack Infrastructure (standalone system) including design, engineering, manufacture, assembly, testing, supply, delivery, installation, and commissioning at NLCIL NEYVELI, ensuring efficient and trouble-free operation.
2		Design Capacity	Integrated Smart Rack Solution must cater to an IT load up to 6 kW or better.
3		Relocation/Service	All infrastructure components must be designed for easy maintenance, dismantling, and relocation to a different location.
4		Integrated Components	Solution must essentially include environmental controls, rack mounted air conditioning, UPS power distribution, smoke detection & fire suppression, water leak detection, humidity sensors, and security devices. Environmental monitoring must be done from IP based hardware.
5		OEM Consistency	Critical components, including the Cooling unit, Rack, rack PDU, and Monitoring unit, must be from the same and single OEM for better integration, unified support, and serviceability or better.
6		Certification	The Integrated Smart Rack Solution must be CE Certified.
7	Rack and Physical Structure	Rack Dimensions	42U, 19-inch mounting type with nominal dimensions of 2100 mm (Height) x 800 mm (Width) x 1100 mm (Depth) or better/wider.
8		Load Capacity	Safe load carrying capacity of 1400 Kg on the enclosure frame and 1000 Kg on the 19" mounting angles, or better.
9		Doors	Front Glass door for complete 42U height visibility. Rear plane/split door with stiffener for strength.
10		Cable Management	Cable entry provision from top & bottom (both sides of the rack). Cutouts with rubber/brush grommet on top and bottom cover. Vertical Cable Manager on both LHS & RHS on the rear side.
11		Airflow Management	Integrated hot and cold aisle containment of 1 rack. Must include a thermally insulated cold aisle chamber and 25 nos of 1U Blanking panels (or better) to prevent air mixing.
12		Available IT Space	Intelligent Smart Rack should have a minimum of 23U (total) space available for IT equipment (after accounting for all integrated components).
13	Cooling System (Rack-Based Closed Loop)	Visual Status	Status based LED light to be provided on the rack with blue and red color for all critical events.
14		Cooling Capacity	7 kW / 2 TR capacity rack mounted cooling unit (N topology: 01 no. 7kW unit) or better.
15		Design	Rack based Air Cooling with indoor-outdoor design. Closed-loop cooling system able to cool equipment uniformly from 1st U to 42nd U of the rack.
16		Core Specs	SHR (Sensible Heat Ratio) > 0.9. 100% Duty cycle. Scroll compressor. 9U rack mountable (maximum height). Refrigerant: R407C/R410A or better.
17		Components	Electronically Commutated (EC) fan. Hydrophilic evaporator coil. High Pressure & Low-Pressure protection.
18		Filter	Washable filter with 80% efficiency down to 20-micron or better.
19	Power and Distribution	Piping Distance	Support for indoor to outdoor copper piping distance up to 30 mtrs, including vertical piping distance up to 6 mtrs.
20		Emergency	ON/OFF switch at indoor unit for emergency purposes.
21		Rack PDU (rPDU)	2 Per Rack (rPDU) for server power distribution.
22		rPDU Specs	0U, Vertical, Single Phase, 32 A, 230 V, intelligent PDU. Minimum of 36 numbers of C13 and 6 numbers of C19 outlets. Outlets must meet electrical compliance and IPDU should be high temperature grade.
23	Power and Distribution	PDU Monitoring	Following minimum monitoring parameters must be available at the Input level per Rack PDU: Voltage (V), Current (A), Power factor, Active power (W/KW), and Apparent power (VA/KVA).
24		Electrical Distribution	Rack mountable Power Output Device (POD) with essential breakers to be provisioned. All input supply cables from the POD unit to the equipment must be connected with industrial socket (male - female) with suitable rating.
25		Environmental Controls	Must include Smoke Detector, Water Leak Detection system, Temperature/Humidity Sensor with display, Door Sensor, and Alarm beacon.
26	Environmental Controls, Monitoring, and Security	Monitoring Unit	1U rack mountable monitoring unit with redundant power supplies. Must be capable of single-window monitoring of all environmental parameters, UPS, and air conditioning over Ethernet, and capable of sending Email Alerts.
27		Integration	Monitoring unit must integrate and monitor all environmental parameters (temp, humidity, door access, smoke, etc.) with the cooling unit in a single dashboard. Monitoring must not use any cloud-based monitoring.
28		Monitoring Protocols	Monitoring unit must support basic protocols like Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS Server, smtp, TCP/IP4. Network interface must be 10/100M self-adaptable Ethernet ports or better.
29		Access Control	Rack based access control system using Biometric Technology. Front & rear rack doors must have electromagnetic locks operating on the fail-safe principle through the Biometric access control system.
30		Video Security	01 no. IP Based Camera for live monitoring.
31		Safety Feature	Emergency front and rear door opening on thermal outage (e.g., extremely high internal temperature) must be provided.

10. Interior for ICC Control Room (NLCIL HQ Neyveli)

S.No	Category	Parameter	Unit	Quantity	Minimum Required Specification
1	Interior Civil and Furnishing Works	Laminate Panelling	SFT	900	P/F Comm Ply panelling (single layer) on 50x25x2 mm Aluminium Framework. 12 mm tapered edge ply, finished with 1 mm thick laminate of approved shade/color.
2		Louvered Panelling	SFT	350	Louvered Panelling for the TV all-round area.
3		Gypsum False Ceiling	SFT	350	Providing and fixing Gypsum False Ceiling with G.I. Perimeter Channels (0.55 mm thick) and G.I. intermediate channels (0.9 mm thick) at specified centers (1220 mm and 450 mm) using appropriate fasteners.
4		Laminated Drop Down Ceiling	SFT	120	Providing and supplying Drop Down wooden Ceiling in 19 mm th. Comm. ply base with 1 mm th. laminate finish, complete with suitable lipping.
5		CDC Flooring	SFT	600	Supply and laying of AC 4 grade pre-laminated CDC flooring laid on the existing tile flooring with necessary underlay. Includes required door profiles. Quantity includes 2.5% Attic stock and 2.5% wastage.
6		Side Beading	Rft	100	Side Beading as required.
7		Toughened Glass Door	nos	2	12 mm toughened glass door (900 mmx2400 mm), supported on brushed S.S. finish top/bottom hung patch fittings and Dorma or equivalent Floor spring. Includes Ozone FS 8400 STD 100KG/Dorma or equivalent hardware (handles, patch lock).
8		Plastic Acrylic Emulsion Paint	SFT	600	Providing and applying acrylic emulsion paint of approved shade/texture over prepared surface (scraping, washing, primer, chalk putty, sandpapering). Paint to be claimed only for the punning area.
9		STORAGE CABINETS	SFT	16	P/F Ceiling high storage cabinets (SC-1 600 mm deep) in 19 mm thk. both sides prelam Board construction with 12 mm thk. prelam. Ply backing. Includes auto-closing hinges and matching edge binding/laminate. Quoted Model must have test report from any Govt./ NABL Accredited LAB for Anti - Termite.
10		BLINDS	SFT	80	P/F Blackout roller blinds for external glazings (Future Blinds/TRAC/Vista/Mac or equivalent).
11		Frosted Film on Glass	SFT	40	Frosted film with sparkling effect on glass panels as per approved pattern/design.
12		Office Table (Manager - 2 Seats)	nos	2	2400 mmx750 mmx750 mm table made up of 25 mm Thick Prelaminated particle board, 2 mm PVC edge banding. Includes mobile pedestal, key board tray, and CPU trolley. Quoted Model must have test report from any Govt./ NABL Accredited LAB for Anti - Termite.
13		Curve Table (5 Seats)	nos	1	3000 mmx750 mmx750 mm table made up of 25 mm Thick Prelaminated particle board, 2 mm PVC edge banding. Includes mobile pedestal, key board tray, and CPU trolley.
14		High Back Chairs	nos	7	High Back with head rest, Synchro Mechanism, Two Way Adjustable Arms, and Nylon Base.
15		Granite threshold	Job	1	Granite threshold installation for the Main door entrance (One Job Lot).
16	Electrical Works	Raw Power DB (4 way VTPN)	nos	1	SITC of a 4-way VTPN Double door type MCCB incomer DB. Incomer: 100 Amps 3 pole MCCB-1 no. Outgoings: 40 Amps 3 pole MCB-1 no, 32 Amps SP MCB-4 nos.
17		UPS Output DB (8 way SPN)	nos	2	SITC of an 8-way SPN Double door DB. Incomer: 40 Amps 2 pole MCB-1 no. Outgoings: 25 Amps SP MCB-6 nos.
18		Light Point Wiring	Point	8	SITC of Light point wiring.
19		16 A Switched Socket (1 No.)	nos	20	SITC of 1 no 16 A Socket controlled by 16 A switch with suitable front plate and back box.
20		16 A Switched Socket (2 Nos.)	nos	15	SITC of 2 no 16 A Sockets controlled by 2 nos of 16 A switches with suitable front plate and back box.
21		Lighting Circuit Wire (A)	Mtrs	100	SITC of 2 run 2.5 sqmm and 1 run 1.5 sqmm wire for lighting circuit.
22		Lighting Circuit Wire (B)	Mtrs	50	SITC of 2 run 4 sqmm and 1 run 1.5 sqmm wire for lighting circuit.
23	LED Down Lights	nos	16	SITC of 20 W LED Down Lights.	
24	Data Networking and Rack Components	CAT6 Cabling	Mtrs	300	SITC of CAT6 Cabling with PVC.
25		24 Port Patch panel	nos	2	SITC of a 24 Port Patch panel.
26		CAT6 I/O	nos	24	SITC of CAT6 I/O with back box.
27		2 m Patch Card	nos	24	Supply and SITC of 2 m Patch Card.
28		1 m Patch Card	nos	24	Supply and SITC of 1 m Patch Card.
29		Floor Mount Rack	nos	1	27 U Floor Mount rack with required Accessories.
30		PoE Switch	nos	1	24 Port POE Gigabit Semi Managed Switch.
31	Access Point	nos	1	1800 Mbps Access Point.	
32	CCTV, Audio/Visual, and Control Systems	CCTV System	Job	1	8 Ch NVR-1 no. 5 MP Dome Camera with 128 GB SD Card-3 nos. 4 TB Hard disk-2 nos.
33		HDMI Cable	nos	1	SITC of 15 Mtr HDMI cable.
34		HDMI Cable	nos	1	SITC of 30 Mtr HDMI cable.
35		Aluminium Raceway	Mtrs	20	100x40 MM Aluminium channel.
36		MS Junction Box (Large)	nos	4	150x150x50 MM MS Junction box.
37		MS Junction Box (Small)	nos	4	100x100x50 MM MS Junction box.
38		Fire Alarm Panel	nos	1	Conventional fire alarm panel 4 Zone-1 no. Includes 4 smoke detectors (Above & Below), 2 RIs, 1 Hooter, 1 MCP, and 60 Mtrs 2 Core 1.5 Sqmm CU.At.Cable.
39		Biometric Access System	nos	1	ESSL F22+ID+WIFI - 1 no. 12 VOLT 2 AMPS FYWS-122-1 no. ESSL FR1200+ID BIOMETRIC - 1 no. EM Lock Double door - 1 no.
40	Dedicated Earthing	nos	2	SITC of dedicated Earthing using 600x600x3 MM copper plate with 2000x45 MM GI pipe earthing.	

11. IP Based PA & Intercom Server Software			
S.No	Category	Parameter	Minimum Required Specification
1	Core System Capacity and Architecture	Endpoint Capacity	The software shall be capable of controlling a minimum of 1000 Endpoints or better from initial deployment.
2		System Architecture	The software shall be an IP-Based Server Software supporting both Public Address (PA) System and Intercom functions or a wider range of integrated communication capabilities.
3		Zone Management	The software shall support unlimited Zones or a capacity sufficient for enterprise-level deployment and future expansion.
4		Monitoring Capability	The software shall include the capability for monitoring the status and health of all connected IP devices or a wider range of device diagnostics.
5	User Interface and Configuration	User Interface (GUI)	The software shall provide a Web-based GUI (Graphical User Interface) or better, for all monitoring, configuration, and management tasks.
6		Endpoint Visualization	The software shall support multiple, easy-to-use views for device identification, including Table view, Grid View, Map view, and Scene view or a wider range of visualization options.
7		User and Access Management	The software shall support Multiple Users with mandatory features including password protection, role management, and organizational management, or better, consistent with industry-standard security protocols.
8		External Contact Integration	The software shall support management and integration of External Contacts or better for efficient communication routing.
9	Broadcasting, Scheduling, and Logging	Real-Time Broadcasting	The software shall support Real-time broadcasting or better for immediate live announcements.
10		Scheduled Playback	The software shall support scheduled message and music playback options or a wider range of scheduled audio content delivery.
11		Event Scheduling	The software shall support scheduling a multiple combination of events such as Timed events, alarm events, or a wider range of trigger-based and time-based events.
12		Logging and Recording	The software shall be capable of recording and generating detailed logs, including call logs and events logs, as well as intercom speech recordings and comprehensive system log generation or better.
13	Interoperability and Server Requirements	Third-Party Integration	The software shall support integration with 3rd party VoIP phone systems using SIP trunk or a wider, industry-standard interoperability protocol (for future upgradation if required).
14		Hardware Provision	The Bidder is responsible for providing suitable, vendor-neutral Hardware (Server/Workstation) for the Software, meeting or exceeding the respective OEM Hardware recommendations/specifications.
15	Vendor Requirements	OEM Support Details	Bidder must provide the Original Equipment Manufacturer (OEM) direct presence details, including but not limited to official email, Toll-free number, and Web portal access, along with a formal Escalation Matrix or wider support documentation, as part of the Bid submission.

12. IP Paging Microphone

S.No	Category	Parameter	Minimum Required Specification
1	Hardware and Construction	Chassis Material	Sturdy and durable high-grade aluminium alloy shell or better, ensuring long-term reliability.
2		Display	Minimum 7-inch digital TFT true color LCD display with a capacitive touch screen or a larger/better high-resolution display.
3		Built-in Speaker	Integrated minimum 1.5W loudspeaker or better for monitoring and two-way intercom functionality.
4		Speaker Frequency Response	The built-in speaker's frequency response shall be between 40 Hz–18 kHz or wider/better.
5	Connectivity and Interfaces	Network Interface	Minimum 1 x 10/100 Base-T network port (RJ-45) or a higher speed/wider standard network port.
6		USB Interface	Minimum 1 x USB 2.0 slot or better/more.
7		Analog Audio Interfaces	Minimum 1 x Line Input (via 1/8-inch or 3.5mm TRS Jack or wider) and 1 x Line Output (via 1/8-inch or 3.5mm TRS Jack or wider).
8		Relay Contacts	Minimum 1 x 2-pin relay input (Dry contact) and 1 x 3-pin relay Output (Dry contact) or more.
9	Audio and Transmission Performance	Signal-to-Noise Ratio (SNR)	80 dB or higher.
10		Total Harmonic Distortion (THD)	Maximum 1% at 1 kHz or lower/better.
11		Audio Transmission Bit Rate	Support for a transmission bit rate between 8 Kbps–320 Kbps or wider/higher.
12		Audio Sampling Rate	Support for a sampling rate between 8 kHz–44.1 kHz or wider/higher.
13		Protocols	Support for industry-standard IP protocols, including TCP/IP, UDP, ARP, ICMP, IGMP, HTTP, and SIP or a wider range of essential networking and communication protocols.
14	Operation and Control	Configuration Methods	Support for configuration via Web GUI and Touch Screen Operation or wider, intuitive methods.
15		Emergency Function	Dedicated Emergency button or feature for immediate emergency broadcast to preset zones or wider selection options.
16	Power and Environmental	Power Supply	The device must be supplied with the required power adapter, such as a DC 12 V / 1 A power adapter or equivalent, appropriate for the device.
17		Operating Temperature	up to +45 deg C or wider/better
18		Operating Humidity	up to 90% RH non-condensing or wider/better tolerance.
19	Vendor Requirements	OEM Support Details	Bidder must provide the Original Equipment Manufacturer (OEM) direct presence details, including but not limited to official email, Toll-free number, and Web portal access, along with a formal Escalation Matrix or wider support documentation, as part of the Bid submission.

13. Video Management Software			
S.No	Category	Parameter	Minimum Required Specification
1	Core System and Platform Architecture	System Architecture	Client-Server based IP video security solution providing seamless, integrated management of video, audio, and data across an IP network. Must support single or numerous workstations for simultaneous viewing across the network or wider.
2		Open Platform & Agnosticism	Must be an Open Platform, Brand Agnostic VMS from an OEM different from the camera OEM. Shall support IP cameras (with all features/functionality) from a minimum of thirty (30) major camera brands or wider. OEM Declaration of brand support must be submitted.
3		Licensing Model	Perpetual Licenses must be provided for the IP Video Management Software, valid for the lifetime of the system or better. Licensing should be based on the MAC ID of the Server/Recorder only, and not on individual camera devices or wider.
4		Operating System (OS)	OS-agnostic VMS server application capable of running on both Windows and Linux operating systems or wider/better.
5		Scalability & Security	The system shall provide an integrated, secure, scalable, and easily accessible software-based solution for the management of existing and future physical security infrastructure or wider.
6		OEM Compliance	The OEM must be an ONVIF Full/User Member and fully compliant with ONVIF S, G, M, and T Profiles or wider/better.
7		Indigenous Development	The Video Management Application should be Indigenously Developed by the OEM and must not be a White-labelled Product.
8		Software Certification	VMS (Server-Client, Web, and Mobile application) must be STQC certified or equivalent industry-standard certification. The STQC certificate must be submitted at the time of bid submission.
9		Cyber Security Certification	VMS must be certified with FIPS-140-3 encryption or equivalent highest-level industry-standard encryption from any accredited Indian agency for data protection and mitigating cyber security risks. (AES-256 encryption, TLS-2 or higher compliant with CERT).
10		OEM Capability	The OEM must possess a valid CMMI Level-3 certification or better.
11	Management and Administration	Central Management	Central management server shall allow administrative access via a dedicated Configuration Client or equivalent interface for comprehensive configuration and management of all servers, cameras, and users.
12		Device Discovery	The VMS management server must be able to intelligently scan an IP network for new devices (cameras or servers) along with automatic model detection or better.
13		Rapid Configuration	Must support Automatic discovery of devices (e.g., via UPnP and/or ONVIF), the ability to Add all cameras with a single click, and Apply settings to multiple cameras of the same model with a single click or wider bulk configuration capabilities.
14		User Access Control	Must provide User role-based cameras and feature access, allowing the definition of users with passwords and access to only specific cameras or wider granular control.
15		System Monitoring	Must include a System Watchdog feature to alert in case of failure of cameras and servers, and provide an Automatic Health check-up of all connected devices (IP Cameras & NVRs) or better.
16		Logging & Reporting	Must generate comprehensive server logs (login access, settings changes, archiving events, etc.) and generate logs & reports in Graphical & Tabular form, exportable to PDF, Excel, or more formats or wider.
17	Live View, Playback, and Recording	Live View Capacity	Must support Live View of a minimum of 110 cameras simultaneously on one screen/monitor using software video wall or a higher capacity.
18		Client Connection	VMS should support live view and playback from a minimum of 10 clients simultaneously, both local and remote, or more.
19		Matrix & Customized Views	Must support Configurable Matrix views (e.g., 1x1, 2x2, 3x3, 4x4, or customizable) and Customized camera views based on user input shape and size, or a wider range of display options.
20		Camera Sequencing	Must support View/Camera sequencing with user-driven time intervals, along with controls like pause/play, skip forwards, and skip backwards, or wider sequencing flexibility.
21		Streaming & Switching	Must support Dual Streaming and Automatic Switching from Low to High Quality on full-screen mode or better, with the option to change Live View streaming directly from cameras or from VMS server using RTSP, HTTPS, and HTTP options or wider.
22		Simultaneous Viewing	Must allow Live view and Playback to be available at the same time, with the playback window running side-by-side with the live view window or better.
23		PTZ Control	Must support PTZ control via mouse and joystick, and on-screen PTZ control with Click and Zoom facility or wider methods.
24		Video Zoom	Must be possible to Digitally Zoom on both live picture and recorded video, with the zoom feature also available on snapshots or better.
25		Recording Formats	Must support H.265+, H.265, H.264, MPEG4, or MJPEG video recording or wider formats.
26		Recording Quality	Must support recording at a minimum of 5 FPS to 30 FPS at resolutions from CIF to Full HD (1080p) and 4K resolution or better.
27		Dual Streaming Recording	Must support dual streaming, allowing recording at different video qualities than the streaming quality, utilizing a minimum of two different streams from the cameras.
28		Storage Flexibility	Must support event-based or continuous recordings on NAS, SAN, Cloud Storage, DAS, local, or network drive, with the ability to define a different drive for each individual camera or wider flexibility.
29		Audio Recording	Must support the ability to record audio along with video in the same recording file.
30		Export and Security	Must be possible to export the desired portion of video in mp4, avi, and asf formats or wider, with the ability to Digitally Sign the exported video to protect it from tampering.
31		Search Capability	Must have the ability to search based on Date/Time/Camera Name, ID, and Location for more than one camera simultaneously or wider advanced search parameters.
32	Security and Encrypted Streaming	Encrypted Streaming (Camera to VMS)	VMS should support RTSPS or SRTP or RTSP over TLS Encrypted Live Streaming from cameras (if supported by cameras) to the VMS server or better. OEM Declaration must be submitted.
33		Encrypted Streaming (VMS to Client)	VMS should support streaming of RTSPS or SRTP or RTSP over TLS Encrypted Live Streaming from VMS servers to clients or better.
34		Data Communication Security	To prevent unauthorized access, VMS should support CA certificate-based HTTPS encrypted data and stream communication between the camera and the recording server (CA certificate provided by end user), or wider industry-standard encryption.

35	Mobile Surveillance and Remote Viewing	Mobile Device Support	Must support iOS and Android phones or devices for viewing live video, with or without installing proprietary Apps, or wider mobile platform support.
36		Mobile App Features	Mobile App must support PTZ Control, Audio Streaming along with video streaming, and VMS/Mobile App support for multiple sites spread across WAN to be controlled and viewed from a central location, or wider functionality.
37		Streaming Control	Must provide the option for RTSP, HTTP, RTSP over HTTP streaming, or both simultaneously at the individual camera level or wider streaming options.
38		Remote Authentication	Must support Authentication parameters (username, password) for streaming to remote clients or better.
39	Integrated Command and Control Center (ICCC) Platform	Unified Interface	The ICCC/VMS application must be an enterprise-class IP-enabled platform. The User Interface (UI) shall present a unified security interface for the management, configuration, monitoring, correlation, intelligence, and reporting of various embedded systems, sub-systems, and associated edge devices or wider integration.
40		Platform Experience	The ICCC/VMS Integration Platform must run on a web interface and have prior experience of integration with at least 5 different sub-systems or wider.
41		Integration Capability	Must support protocol integration with Modbus TCP, I/O inputs and Relay outputs, SDK integration in all programming languages, Database integration, and Third-party Application integration or wider industry-standard integration methods.
42		External System Integration	Must be capable of integrating with systems like Video Analytics Systems, GPS-based Vehicle Tracking Systems (VTS), and Fuel Management Systems (FMS) or wider. Integration must establish a real-time connection for real-time data visibility, adhere to data security best practices, and visualize Key Performance Indicators (KPIs) on a central dashboard.
43		Alarm & Incident Management	Must have an inbuilt Alarm/Incident Management Dashboard on the client system to view all events. All alarms should be shown in the same system. The system should support event integration (sending/receiving events) with other devices. Incident Register must show details including Incident ID with GPS Coordinates, Camera Location, Type of Alert, Alert Time, Trigger option to initiate SOP, and Status/progress of the incident or wider.
44		User Experience	ICCC/VMS application should provide easy-to-use user interfaces such as Click to Action, Charting, Hover and Pop Ups, KPIs, Event Filtering, Drill down capability, Event Capture, and User Specific Setup or better.
45		Platform Characteristics	Must embody a Client-server Architecture, support Multi-Site/Multiple-Hierarchy Deployment, provide clear scalability, Central administration capability, support local redundancy and high availability options, and be capable of running in a virtual environment or better.
46	Vendor Requirements	OEM Support Details	Bidder must provide the Original Equipment Manufacturer (OEM) direct presence details, including but not limited to official email, Toll-free number, and Web portal access, along with a formal Escalation Matrix or wider support documentation, as part of the Bid submission.
47		IPR & Source Code	Intellectual Property Rights (IPR) & Source code of the software should be in the name of the OEM/company authorized person, demonstrating full ownership. Supporting documents to be submitted.

14. Video Analytical Software			
S.No	Category	Parameter	Minimum Required Specification
1	Platform Integration and Core Architecture	Core Technology	The Video Analytics solution must offer a suite of analytics rules based on Artificial Intelligence (AI) utilizing Machine and Deep learning solutions or better/wider advanced methodologies on video streams.
2		Unified Platform (VMS & VAS)	The Video Analytics Software (VAS) and Video Management Software (VMS) must be compatible with each other to ensure seamless integration, unified operation, and no dependency on third-party systems for core functionality.
3		Single Interface & Bandwidth	The proposed VMS/VAS platform must share a single interface to avoid duplication of camera addition and conserve network bandwidth. The VMS must have the capability to apply AI analytics on the same camera feed or better/more efficient resource utilization.
4		Analytics Use Cases	Each video analytics use case must be able to run on a unified Video Analytics Software Platform itself or better.
5		Alert Integration	All edge analytics, video analytics, and ANPR alerts must be visible in the VMS client system, and playback of all analytics events must be possible directly through the VMS software or wider.
6		Accuracy	Minimum accuracy of >95% for all different types of analytics including ANPR, or better.
7	Specific Video Analytics Features	Crowd Detection	AI-Based Crowd Detection Module should detect crowd formations and trigger alarms when a specified number (capacity) or percentage (occupancy) threshold is reached. Must support multiple configurable regions/zones within a single camera's field of view, each with individually specified crowd thresholds, configurable borders, and user-defined maximum upper and lower limits or better.
8		Zone Intrusion Detection	AI-Based Intrusion Detection must automatically detect a Person/Human moving continuously within a defined zone for a configurable period of time. Must support multiple zones within the same field of view, with individual configurable parameters (Intrusion Time, Zone Name). Must support scheduled automatic enabling/disabling of analytics. Analytics stream must display metadata like Bounding Box and ID or better.
9		Fire & Smoke Detection	Must classify and alarm on Fire/Flame and Smouldering Smoke in real-time video streams. The algorithm must be developed with Advanced Image Processing and Pattern Recognition Technology, based on physical characteristics of fire/flame and smoke patterns, capable of detecting dense/sparse fire (approx. 1 meter height at 20m distance, 125 PPM) and dense smoke (30-40% coverage) within an incredibly short time or better.
10		PPE Detection (Personal Protective Equipment)	AI-Based PPE Detection must classify a Person/Human and detect if they are wearing appropriate, configured PPEs in real-time. Must support detection of Safety Helmet, Safety Kit, Safety Jacket (up to 25m, min.125 PPM), and Black Safety Shoes (up to 15m, min.200-250 PPM) or wider range of PPEs. Must use an AI & Machine Learning based Algorithm for continuous accuracy improvement. Must use a Bounding Box or Overlay (Green for no alarm, Red for alarm) for violation alerts, and successfully detect violations when a person wearing PPE and a person not wearing PPE are both present in the field of view (min.150-250 PPM) or better
11		Vehicle Classification	Must classify vehicles into categories like bike, car, Truck/bus, and large size vehicles based on axle or wider classifications. Must provide high accuracy in real-time counting and classification. Must capture a snapshot of each counted/classified vehicle and include features for recording, snapshot capture, database management, and reporting or wider.
12	Automatic Number Plate Recognition (ANPR)	ANPR Core Function	ANPR Software must automatically detect, recognize, and match the license plate in the captured video feed in real-time for 24x7 unattended operations or better.
13		OCR & Plate Types	Must perform OCR (optical character recognition) of English alpha-numeric characters in standard fonts. Must be able to detect single row, double row, multi row, square, and rectangular plates or wider. Must detect both Standardized (High Security Registration Plates) and Non-Standardized plates or better.
14		Speed Detection	The ITMS/ANPR software must be capable of detecting vehicle number plates at 200 km/h or above speed. A valid test certificate from ARAI or NATRAX must be submitted.
15		Database & Logging	Must store a JPEG image of the vehicle and license plate, and enter the license plate number into a relational SQL database (MySQL/PostgreSQL) or wider, along with date/time stamp and camera details. The necessary database license/subscription/support services must be bundled with the ANPR software. Must log all license plates for forensic investigations.
16		Search & Tracking	Must support Search for similar License Plates across multiple cameras/locations, and allow users to track vehicles across multiple cameras or better.
17		Watch List & Alerting	Must compare against a Watch List database to detect matches, enable shortlisting of "wanted," "Suspicious," "Stolen," unauthorized plates, and generate an alarm in case of any identified vehicle plate or wider.
18		User Interface	Must be a Web-Based Application accessible on a standard web browser. Must have an Intuitive Graphical User Interface (GUI) for configuration and viewing; configuration through Command Line Interface (CLI) is not acceptable. Must have the capability to play the recorded video clip of the violation event within the Client GUI application itself.
19		Compliance & Discovery	Must comply with applicable data protection and privacy regulations (including GDPR/DPDP Act, India). A Security Audit Certificate for ANPR/ITMS system from Cert-In Empanelled Auditors must be submitted. Must include an ONVIF Discovery Tool for detecting ONVIF Cameras.
20		OS Compatibility	ANPR Software must be Compatible on Windows Operating System & Linux Operating Systems both or wider.
21	Vendor and Compliance Requirements	Indian Presence & Experience	The Software OEM must have a Registered & Manufacturing office in India and be in the VMS, Video Analytics Software (Surveillance & ANPR related) business in India from the last seven (7) years or more. Documentary evidence/Purchase Order copies must be submitted.
22		Cyber Security Certification	VMS & Video Analytics Software must be certified with FIPS-140-3 encryption or equivalent highest-level encryption from a Cert-in empanelled agency for data protection, encryption, and mitigating cyber security risks.
23		Software Integrity	Offered Software must not be a White Labelled product and not be from the Same Camera OEM. IPR & Source code of software should be in the name of the OEM/company authorized person or better, demonstrating full ownership.
24		OEM Certifications	OEM should possess CMMI Level-3, and ISO 9001,20000,90003, and 27701 certificates or wider/better industry-standard certifications.
25		OEM Support Details	Bidder must provide the Original Equipment Manufacturer (OEM) direct presence details, including but not limited to official email, Toll-free number, and Web portal access, along with a formal Escalation Matrix or wider support documentation, as part of the Bid submission.

15. Industrial Grade 3 TON AC

S.No	Category	Parameter	Minimum Required Specification
1	General Design and Performance Conditions	Design Requirements	High-performance Industrial grade split Precision Air-Conditioning (PAC) unit. Must be wall-mounted or better/wider industrial design, optimized for maximum cooling capacity and high Airflow rate to match sensible load. Unit must be designed for service access only from the front.
2		Nominal Capacity	3 Tons (Actual Capacity: As per Site Requirement/Load Calculation).
3		Inside Design Condition	24 deg C±2 deg C and Max 50% RH.
4		Ambient Design Temp.	Condenser must operate without tripping from -5 deg C to 45 deg C ambient temperature or wider/better range.
5		Sensible Load Factor	High sensible load factor above 0.90 or better.
6		Air Quantity	500 to 600 CFM / TR or higher airflow rate.
7		IDU to ODU Connection	Connection length up to 50 meters (running meters) or longer/better allowance.
8	Cooling Circuit and Components	Refrigerant	R410A or equivalent low Global Warming Potential (GWP) refrigerant.
9		Compressor	R410A based Scroll compressor with suction gas cooled motor, vibration isolators, internal thermal overloads, manual reset high pressure switch, low pressure, and high pressure transducer or wider protection.
10		Expansion Device	Thermostatic Expansion Valve (TXV). Capillary Tube type expansion device is not acceptable.
11		Evaporator/Condenser Coils	Coils must be constructed of mechanically expanded copper tubes in enhanced surface aluminum fins with Hydrophilic coating or better corrosion protection.
12		Other Components	Must include a filter drier.
13	Indoor Unit (IDU) Fans and Cabinet	Indoor Fans	EC (Electronically Commutated) Fans or better/wider technology for direct drive radial fan with high efficiency and reliability.
14		Airflow Design	Unit must be designed with draw-through airflow having fans located downstream of the coil.
15		Cabinet & Frame	Exterior steel panels must be custom powder coated to protect against corrosion. Side, bottom, and rear panels must be insulated from the airstream. Must be provided with perforated inlet and outlet panels with more than 65% open area.
16		Air Filtration	Unit must be equipped with one set of HDPE air-filter having filtration efficiency of 90% down to 10 microns or better. Filter must be washable repeatedly, located within the cabinet, and accessible from the front of the unit.
17	Outdoor Unit (ODU) Condenser	Condenser Protection	Outdoor Unit (ODU) protection level must be IP54 or better.
18		Condenser Frame	Frame must be made up of a sturdy G.I. (Galvanized Iron) structure or better.
19		Fan Control	Condenser should be equipped with a fan modulation kit or better variable speed control.
20	Microprocessor Controller and Management	Controller	Unit should be controlled by an intelligent microprocessor-based control board with BMS (Building Management System) capability.
21		Parameters	Controller must allow setting and monitoring of parameters, including: Return Temperature set-point, Actual Room temperature, Indoor Fan speed Range, Mode of Operation, Unit Number, and Active Alarm.
22		Alarms/Warnings	Examples of available alarms/warnings must include: Power fail, High Return temperature, Loss of airflow, Compressor Low Pressure, Compressor High Pressure, and High discharge temperature.
23		Redundancy Features	Controller must incorporate: Sequencing and auto-rotation of units up to 6 numbers in connection, Fault Failure Switch in sequence, and Automatic restart after a power failure or better.
24		Remote Display	The unit should be provided with a corded remote controller with LCD screen and keypad. Must provide multiple-level password protection. Screen must display current temperature, unit output status (Cooling, fan, etc.), unit mode (Single, lead, standby), operation status, alarm information, date/time, or more
25		Monitoring Interface	Control board must provide an RS485 port with the standard protocol being MODBUS or wider/better BMS communication.
26	Electrical Requirements	Electrical Panel	Each PAC unit must be provided with an in-built electrical panel.
28		Cabling	All Electrical cabling provided by the bidder should be of Armored Copper or better.

16. LED Wall

S.No	Category	Parameter	Minimum Required Specification
1	Display Core Technology and Dimensions	Display Technology	High-resolution indoor LED wall using COB (Chip on Board) or MIP (Micro in Package) technology or better, ensuring superior robustness and visual performance.
2		Video Wall Size (Approx.)	Approximate dimensions of 12 ft (W)×8 ft (H)±5% or larger, with a configurable layout (e.g., 4x2 or equivalent).
3		Installation	Supplied with a base stand or wall-mount as per site conditions or wider/more robust mounting options.
4		Pixel Pitch	1.56 mm or better (smaller) for superior image clarity.
5		Minimum Resolution	Full HD (1920×1080) or higher, such as 2304×1512 or better, ensuring high information density.
6		Pixel Density	409,600 pixels per square meter or higher.
7		Pixel Configuration	RGB – 1R1G1B or equivalent industry-standard full-color configuration.
8		Bezel	Must provide Seamless Viewing with zero bezel gap or better.
9		Cabinet Depth	Equal to or less than 45 mm or thinner, for a minimal footprint.
10	Visual Performance and Lifetime	Colour Processing	18-bit or better for superior grayscale depth and image fidelity.
11		Colours	Capable of displaying 18 quadrillion or better colours.
12		Brightness	600 cd/m2 (nits) or higher, with adjustable dimming across at least 256 levels or wider/more granular control.
13		Contrast Ratio	18,000:1 or better.
14		Refresh Rate	3,840 Hz or better for flicker-free display, especially for camera recording.
15		Viewing Angle	Horizontal and vertical viewing angle of 170 degrees or better.
16		LED Lifetime	100,000 hours or more.
17	System Design, Control, and Redundancy	Power Supply	Dual redundant power supply units, with separate input ports or better for high availability.
18		Signal Redundancy	Must support a dual signal path with redundant receiving cards or better for uninterrupted operation.
19		Modular Design	Power supply, receiving card, and hub board must be independently removable (non-integrated) or better modular design for quick servicing.
20		Service Access	Front-access design for easy and complete maintenance or better.
21		Controller Functions	The LED Wall Controller must support features including seamless switching, picture-in-picture (PIP), fade-in/out transitions, and source scaling or a wider range of industry-standard video processing capabilities.
22		Input Resolution	Controller must support Full HD or higher input resolutions.
23		Control Ports	Must include RJ45 and USB ports or wider/more standard control interfaces.
24		System Integration	The LED Display Wall and Controller must be supplied by the same OEM to ensure complete compatibility, seamless operation, and unified support.
25		Protection	Rear side conformal coating for moisture and dust protection or wider/better environmental protection.
26	Power and Environmental	Power Consumption (Max)	Equal to or less than 260 watts per square meter or lower.
27		Power Input Range	100 to 240 volts AC,50/60 Hz or wider/universal input range.
28		Operating Temperature	Up to +40 deg C or wider/better
29		Operating Humidity	Up to 90% RH (non-condensing) or better.
30	Certification and Vendor Requirements	Product Certification	BIS certification as per IS 13252 (Part 1): 2010. The BIS certificate should be on the OEM brand and their own manufacturing unit in India. The certificate must be provided for the offered LED cabinets, not just the LED module.
31		Brightness Verification	The OEM must own and provide a luminance meter (not a lux meter), along with a valid calibration certificate, to verify brightness levels during inspection. OEM details (Model No. & Date of Purchase) and the latest calibration certificate must be provided with the bid.

17. Video Wall Controller with Full Redundancy

S.No	Category	Parameter	Minimum Required Specification
1	Core Architecture and Redundancy	OEM Consistency	The Video Wall Display Modules, Controller Hardware, and Management Software must be supplied by the same OEM to ensure full compatibility, performance optimization, and simplified support.
2		Architecture & Platform	Controller must be based on high-performance server-grade architecture or better, running on a stable, industry-standard platform such as Windows 11 (or better) Enterprise/Pro, or Windows Server LTSC (Long-Term Servicing Channel) 2022 (or better), or equivalent stable professional OS or better.
3		Processor	Intel Xeon or Intel Core i7 processor, or better, ensuring high-speed processing and rendering capability.
4		Power Supply	Must include dual redundant hot-swappable power supplies or better for high availability and continuous 24x7 operation.
5		Storage	Minimum 480 GB Solid State Drive (SSD) or higher, provided in a redundant hot-swappable RAID configuration or better for reliability.
6		Chassis	Industrial-grade 19-inch rack-mountable chassis or better, suitable for standard server racks.
7	Performance and Connectivity	Memory (RAM)	Minimum 8 GB RAM or higher, suitably sized for supporting a minimum of 8 Full HD or higher output displays with synchronized playback, configured in 4x2 or equivalent layout, or wider.
8		Output Resolution	Controller must support a minimum of Full HD (1920x1080) and up to 2304x1512 or higher, matching or exceeding the resolution of the connected LED video wall.
9		Video Processing Bandwidth	Minimum video processing rate of 1 Gbps or better for seamless high-resolution rendering.
10		Input Support	Controller must support a minimum of 12 input sources (servers, workstations, media players, or wider) simultaneously. The architecture must be expandable to add more inputs in the future without a system overhaul or better.
11		Direct Input Connection	Must preferably support direct HDMI and DisplayPort input from workstations without the need for external converters or better/wider direct connection options.
12		Audio Support	Integrated support for HDMI audio input and output for synchronized audio-visual (AV) playback.
13		Network Interfaces	Minimum two network ports or more for management and data communication.
14	Management and Control Features	Logical Display Canvas	Controller must allow the entire video wall to function as one logical screen, with the flexibility to display any input source across any area or wider display configuration flexibility.
15		Remote Management	Must support remote access via a web interface or dedicated software for monitoring, source switching, configuration, and diagnostics or wider industry-standard remote control methods.
16		Control Software Features	Supplied software must support GUI-based drag-and-drop input mapping, split-screen views, display zoning, window resizing, layout pre-sets, preview, seamless switching, fade-in/out, and scheduling or a wider range of advanced control features.
17	Accessories and Compliance	Accessories	Must be supplied with all necessary setup and operation accessories, including: Keyboard and mouse, mechanism or extender for desk-level KVM access, HDMI and DisplayPort cables, power cords, remote control, and mounting brackets/hardware or a wider range of complete accessories.
18		Certifications	Controller must be BIS certified. All functionalities must be certified by the OEM or wider third-party verification.
19		System Integration	The LED Display Wall and Controller must be supplied by the same OEM or better/wider integrated solution.
20		OEM Eligibility	OEM must have a registered office in India and provide valid documentary proof of compliance, including certification for the controller, display modules, and management software, as part of the bid submission.

18. Video Wall Management Software with integrated System Monitoring & Alarms			
S.No	Category	Parameter	Minimum Required Specification
1	Core Platform and Compatibility	OEM Consistency	The Video Wall Management Software must be from the same OEM as the display modules and the controller hardware or better/wider integrated solution, ensuring full compatibility and simplified support.
2		System Protection	The system should be protected from unauthorized access using a Hardware and/or Software License key or wider industry-standard security measures.
3		User Interface (GUI)	The software should be user-friendly and feature a Scalable GUI capable of scaling to any size of Video Wall screen or wider flexibility.
4	Display Control and Management	Source Handling	Software must enable the user to display multiple sources in any size and anywhere on the display wall or wider flexibility.
5		Layout Management	Must support layout management for various source types, including Video, RGB, DVI, Internet Explorer, Desktop Application, and Remote Desktop Monitoring Layouts or a wider range of displayable content types.
6		Source Positioning	Users must be able to position the source input on the Video Wall with a single click or better/more intuitive placement methods.
7		Auto Source Detection	Software must support Auto Source Detection or better/wider automated input management features.
8		Source Alignment	Must include Snap Sensitivity or an equivalent feature that enables magnetic behavior to automatically fit and align the sources for easy placement on the wall or better/more efficient alignment tools.
9		Source Carousel	Users must be able to set multiple sources that can change sequence after some time interval without changing the layout or wider carousel/sequencing options.
10		Live Playback	Software must be able to provide live playback (real-time display) of the Video Wall screen or better.
11	Layouts, Scenarios, and Scheduling	Scenario Management	Software must be able to Save and Load desktop layouts/scenarios from Local or remote machines or wider storage options.
12		Offline Layouts	It must be possible to create offline layouts (layouts configured without live connection) or better.
13		Layout Scheduler	All layouts must be schedulable as per user convenience, supporting specific date & time, weekday, weekend, start & end date or a wider range of scheduling parameters.
14		Auto Launch	Software must support the auto launch of Layouts according to a specified time or event by the user or wider trigger options.
15		Launch Application	Software should be able to support the launch of applications directly to the video wall or better/wider functionality.
16		Ticker Functionality	Software must be able to prepare various kinds of tickers, including text ticker, RSS ticker, transparent ticker, and time ticker or a wider range of configurable ticker options.
17	Security and Integration	Authentication & Roles	Software must offer a minimum of 4 levels of Authentication (e.g., User accounts, Permissions for functionality, Roles, etc.) or wider/more granular security controls.
18		Workspace Allocation	System must provide functionality for the administrator to define and allocate workspace for a particular operator or a group of operators working on a Video Wall or better role-based workspace management.
19		Region Management	Administrator must be able to assign Video Wall workspace to a user based on pixel map or wider/more precise user access control based on screen region.
20		Third-Party Integration	The system must offer an interface to enable control from 3rd party devices like Creston, AMX, or other industry-standard control systems or a wider range of integration capabilities.

19. 20KVA Online UPS with 4 hour Backup

S.No	Category	Parameter	Minimum Required Specification
1	System Architecture and General	Rating	20 KVA / 20 kW (Unity Power Factor).
2		Configuration	3-Phase Input (3in) to 1-Phase Output (1out) or 3-Phase Output (3out).
3		Technology	IGBT (Insulated Gate Bipolar Transistor) based Double-conversion PWM (Pulse Width Modulation) based online UPS or better.
4		Parallel Mode	Support for parallel operation up to 4 (N+1) units or higher for redundancy and capacity.
5		Installation Mode	Rack / Tower convertible or flexible installation.
6		Noise	65 dB or lower.
7		Ingress Protection	IP20 or better.
8		Backup Time	4 hour at full load or better.
9	Input Specifications	Rated Voltage	400 VAC 3-phase, 4-wire or standard three-phase configuration.
10		Voltage Range	Three phase 175 VAC - 498 VAC or wider range.
11		Rated Frequency	50 Hz / 60 Hz.
12		Frequency Range	40 Hz ~70 Hz or wider.
13		Power Factor	0.95 for Three Phase or higher (closer to unity).
14	Output Specifications	Rated Power	20 KVA / 20 kW.
15		Output Voltage	Three phase 415 VAC or 230 VAC Single phase (depending on the output configuration).
16		Rated Power Factor	Unity (1.0).
17		Voltage Regulation	1% or better.
18		Voltage Harmonic Distortion (THD)	< 2% (linear load) or better.
19		Crest Factor	3:1 or higher.
20		Dynamic Response Recovery Time	60 ms or faster.
21		Frequency Synch Range	Rated frequency ± 3 Hz. Configurable range: ± 0.5 Hz ~ ± 5 Hz.
22	Programmable Outlet	Available or wider/more flexible power management.	
23	Overload and Transfer Time	Inverter Overload (Utility)	At 25 deg C: 105%~125% - 10 min; 125%~150% - 1 min; 150% - more than 200 ms or better
24		Inverter Overload (Battery)	At 25 deg C: 105%~125% - 60~30 s; >125% - more than 200 ms or better
25		Mains - Battery Transfer Time	0 ms.
26		Inverter - Bypass Transfer Time	Synchronous transfer: 0 ms or lower; Asynchronous transfer (default): 20 ms or lower.
27	Efficiency and Bypass	Online mode (AC-AC)	96% or higher.
28		Inverter Efficiency (DC-AC)	92% or higher.
29		ECO Mode	96% or higher.
30		Bypass	Separate bypass and Inbuilt Static bypass are Required.
31	Battery, Display, and Environment	Battery Type	SMF VRLA, Tubular, or LI-ION (vendor to specify type provided).
32		Number of Batteries	24, 32-40 Adjustable in even blocks (flexible configuration).
33		Charging Capacity	13 A inbuilt charger or higher/suitable capacity for the specified battery bank.
34		Display Type	Graphical LCD display with Gravity sense orientation.
35		Event Log	Maximum 256 events stored or higher.
36		Operating Temperature	up to 50 deg C or wider/better.
37		Relative Humidity	up to 95% RH non-condensing or better
38		Altitude	Maximum 3000 m (with derating when higher than 3000 m).
39	Network Management and Certifications	Smart RS232/USB	Supports Windows, Linux, Unix, and MAC operating systems.
40		Webpage Monitoring	Inbuilt for web monitoring.
41		BMS Connectivity	Inbuilt MODBUS for BMS connectivity.
42		Dry Contacts	Inbuilt for general signaling.
43		Management Software	Site monitor or equivalent centralized management software.
44		Optional SNMP	Available for power management from SNMP manager and web browser.
45		Safety Certification (CE)	IEC/EN62040-1
46		EMC Certification	IEC/EN62040-2, IEC/EN61000-3-11, IEC/EN61000-3-12
47		Surge Protection	IEC/EN62040-2, meeting IEC/EN61000-4-5
48		ROHS Compliance	Required.
49		Test Report	Govt approved NABL lab test report must be Available.
50	Quality Standards	ISO 9001-2015, ISO 14001, ISO 45001, and ISO 27001	

20. 32 Channel Network Video Recorder with minimum 15 days backup

S.No	Category	Parameter	Minimum Required Specification
1	Core System Specifications	Processor	Industrial-grade processor or better, ensuring robust and sustained high-performance operation.
2		Operating System	Embedded LINUX or other robust, industry-standard embedded OS.
3		IP Camera Input	32 Channels or more.
4		Hard Disk Support	4 SATA hard disk drive ports or more, with support for a minimum of 20 TB per disk or higher.
5		RAID Support	Support for RAID 0/1/5/6/10 or wider range of industry-standard RAID levels.
6		Network Interfaces	2 (Two) 10/100/1000 Mbps Ethernet ports (RJ-45) or better/more.
7		Network Bandwidth (Total)	384 Mbps Incoming, 384 Mbps Recording, and 384 Mbps Outgoing or higher, for non-AI operations.
8		Network Bandwidth (AI Enabled)	200 Mbps Incoming, 200 Mbps Recording, and 200 Mbps Outgoing or higher, for AI-enabled operations.
9		Protocols	Support for ONVIF (Profile S, Profile G, and Profile T or wider) and other essential industry-standard protocols (e.g., HTTP, HTTPS, TCP/IP, RTP, RTSP, etc.).
10		Video Compression	Support for H.265, H.264+, H.264, MJPEG or wider range of industry-standard video compression formats (e.g., Instastream, H.265+, etc.).
11		System Management	Access via Web GUI, Local GUI (Graphical User Interface), or wider range of industry-standard interfaces.
12	Video Output and Display	Video Outputs	2 VGA outputs and 2 HDMI outputs or more.
13		Maximum Output Resolution	Support for VGA resolution up to 1920 × 1080 or better, and HDMI resolution up to 3840 × 2160 (4K) or better.
14		Simultaneous/Heterogeneous Output	Support for Simultaneous and Heterogeneous video source output across different output pairs (e.g., VGA1/HDMI1 and VGA2/HDMI2) or wider flexibility.
15		Video Display Split (Main/Sub)	Support for 1/4/8/9/16/25/36 view split on the main screen and 1/4/8/9/16 view split on a sub-screen, or wider multi-view options.
16	Decoding and Recording Performance	Supported Resolution	Support for IP camera input resolutions up to 32 MP (Megapixels) or higher.
17		Decoding Capability (Non-AI)	Minimum non-AI decoding capability of: 32 Channels @ 1080p @ 30 fps or better/more, with support for higher resolutions such as 8 Channels @ 8 MP @ 30 fps or better.
18		Decoding Capability (AI Enabled)	Minimum AI-enabled decoding capability of: 24 Channels @ 1080p @ 30 fps or better/more, with support for higher resolutions such as 6 Channels @ 8 MP @ 30 fps or better.
19		Multi-channel Playback	Support for a minimum of 16 Channels of simultaneous playback.
20		Record Modes	Support for General, Motion detection, Intelligent (AI), Alarm, and POS or wider range of industry-standard record modes.
21		Backup Method	Support for USB device and network backup or wider methods.
22	Artificial Intelligence (AI) and Analytics	NVR-based AI Functions	Support for built-in NVR analytics including Face detection, Face recognition, Perimeter protection, and SMD Plus (Smart Motion Detection) or a wider range of equivalent industry-standard functions.
23		Perimeter Protection (NVR)	Minimum of 4 Channels of NVR-based Perimeter Protection, supporting 10 IVS rules per Channel or better.
24		Face Detection (NVR)	Minimum of 2 Channels of NVR-based Face Detection with a minimum performance of 12 face images/s per Channel or better.
25		AI by Camera Support	Full support for camera-based analytics including, but not limited to, Face detection/recognition, Video metadata (Human/Vehicle), Perimeter protection, SMD Plus, People counting, Heat map, and ANPR or a wider range of industry-standard camera AI functions.
26		Face Database Capacity	Support for a minimum of 20 Face Databases with a total capacity of 20,000 images or higher, including support for storing associated attributes (e.g., Name, Gender, Age, etc.).
27		License Plate Database	Support for a minimum of 20,000 license plate numbers or more, including the ability to manage blocklists and allowlists.
28		Advanced Video Metadata	Must support detailed attribute recognition for Human, Motor Vehicle, and Non-motor Vehicle objects, including attributes such as color, type, license plate, accessories, etc., or better/wider attribute recognition.
29	Audio, Alarm, and Physical Interfaces	Audio Inputs	1 Channel RCA or better/more.
30		Audio Outputs	2 Channel RCA or better/more.
31		Audio Compression	Support for G.711a, G.711u, PCM, G726, AAC or wider range of industry-standard audio compression formats.
32		Alarm Inputs	16 Channels or more.
33		Alarm Outputs	8 Channels or more (including at least one power output channel, e.g., 12V/1A).
34		Alarm Types	Support for Abnormality Alarm (e.g., Camera offline, Storage error, IP conflict), Intelligent Alarm (AI/Analytics triggered), and General Alarm (e.g., Motion detection, Local alarm) or wider range.
35		Alarm Linkage	Support for linking alarms to actions such as Record, Snapshot, Local/External alarm output, Audio, Email, Preset, and Log or a wider range of response actions.
36		USB Ports	A minimum of 4 USB ports (combination of USB 2.0 and USB 3.0 or better).
37		Serial Ports	At least 1 RS232 port and 2 RS485 ports (supporting full and half duplex or wider).
38		eSATA Port	1 eSATA Port or more for external storage.
39	Power and Environmental	Power Supply	100–240 VAC, 50-60 Hz or wider input voltage range.
40		Operating Temperature	up to +55 °C or wider/better
41		Operating Humidity	up to 90% RH non-condensing or better
42	Certifications	Certification	(FCC / CE / UL), BIS, RoHS
43		Cybersecurity Certification	IP address filtering, User access log, 802.1x authentication

21. 27 U Network Rack

S.No	Category	Parameter	Minimum Required Specification
1	Dimensions and Construction	Height & Dimension	27U nominal height, 600 mm Width and 1000 mm Depth or wider/deeper/better.
2		Form Factor	Rack Mount / DIN Rail compatibility or wider/universal equipment mounting support.
3		Mounting	Floor Standing Rack or equivalent fixed-position mounting design.
4		Loading Capacity	300 KG±10% or better Loading capacity.
5		Cabinet Material	Powder coated CRCA sheet or better/more durable material finish.
6		Material Thickness	1.2 mm or better (thicker).
7	Access and Management	Front Door	4 mm toughened Glass door with Lock and Key or equivalent secure, visible front panel.
8		Mounting Rails	19" Adjustable rails in both the front and rear of the cabinet.
9		Cable Entry	Rear/Side cable entry facility with Rubber Closures for cable entry holes and proper Glands.
10	Features	Accessories	Must include Hardware Screw pockets, Cable Manager(s), Power Manager(s) (PDU or equivalent), and a Fan (cooling unit) or wider range of standard rack accessories.

22. Interior for Control Room at Unit Monitoring Station

S.No	Category	Parameter	Unit	Quantity (at each location)	Minimum Required Specification
1	Interior Civil and Furnishing Works	Gypsum False Ceiling	SFT	480	Providing and fixing Gypsum False Ceiling with G.I. Perimeter Channels (0.55 mm thick) and G.I. intermediate channels (0.9 mm thick) at specified centers (1220 mm and 450 mm) using appropriate fasteners (as per detailed description).
2		Vinyl Flooring	SFT	450	Supply and laying of Vinyl Flooring on the existing floor with necessary underlay.
3		Toughened Glass Door	nos	1	12 mm toughened glass door (900 mm×2400 mm), supported on brushed S.S. finish top/bottom hung patch fittings and Dorma or equivalent Floor spring. Includes Ozone FS 8400 STD 100KG/Dorma or equivalent hardware (handles, patch lock).
4		Plastic Acrylic Emulsion Paint	SFT	1500	Providing and applying acrylic emulsion paint of approved shade/texture over prepared surface (scraping, primer, chalk putty, sandpapering). Paint to be claimed only for the punning area.
5		BLINDS	SFT	80	P/F Blackout roller blinds for external glazings (Future Blinds/TRAC/Vista/Mac or equivalent).
6		Frosted Film on Glass	SFT	40	Frosted film with sparkling effect on glass panels as per approved pattern/design.
7		Office Table (Manager - 2 Seats)	nos	2	2400 mm×750 mm×750 mm table made up of 25 mm Thick Prelaminated particle board, 2 mm PVC edge banding. Includes mobile pedestal, key board tray, and CPU trolley. Quoted Model must have test report from any Govt./ NABL Accredited LAB for Anti - Termite.
8		High Back Chairs	nos	4	High Back with head rest, Synchro Mechanism, Two Way Adjustable Arms, and Nylon Base.
9		Granite threshold	JOB	1	Granite threshold installation for the Main door entrance (One Job Lot).
10	Electrical Works	UPS Output DB (8 way SPN)	nos	2	SITC of an 8-way SPN Double door DB. Incomer: 40 Amps 2 pole MCB -1 no. Outgoings: 25 Amps SP MCB -6 nos.
11		Light Point Wiring	Point	4	SITC of Light point wiring.
12		16 A Switched Socket (1 No.)	nos	5	SITC of 1 no 16 A Socket controlled by 16 A switch with suitable front plate and back box.
13		16 A Switched Socket (2 Nos.)	nos	4	SITC of 2 no 16 A Sockets controlled by 2 nos of 16 A switches with suitable front plate and back box.
14		Lighting Circuit Wire (A)	Mtrs	40	SITC of 2 run 2.5 sqmm and 1 run 1.5 sqmm wire for lighting circuit.
15		Lighting Circuit Wire (B)	Mtrs	25	SITC of 2 run 4 sqmm and 1 run 1.5 sqmm wire for lighting circuit.
16		LED Down Lights	nos	6	SITC of 20 W LED Down Lights.
17		CAT6 Cabling	Mtrs	150	SITC of CAT6 Cabling with PVC.
18		CAT6 I/O	nos	6	SITC of CAT6 I/O with back box.
19	Data Networking and Control Systems	2 m Patch Card	nos	6	Supply and SITC of 2 m Patch Card.
20	1 m Patch Card	nos	6	Supply and SITC of 1 m Patch Card.	
21	Floor Mount Rack	nos	1	6 U rack with required Accessories.	
22	HDMI Cable	nos	1	SITC of 15 Mtr HDMI cable.	
23	Biometric Access System	nos	1	SITC of a complete Biometric Access System, including: ESSL F22+ID+WIFI - 1 no, 12 VOLT 2 AMPS FYWS-122-1 no, ESSL FR1200+ID BIOMETRIC - 1 no, and EM Lock double door - 1 no.	

23. IP Based 2MP IR PTZ camera with IR 500Meter, Optical Zoom 45x

S.No	Category	Parameter	Minimum Required Specification
1	Imaging & Optics	Resolution	2 Megapixel (1920 × 1080) or higher
2		Image Sensor	1/2.8" Progressive Scan CMOS or better
3		Minimum Illumination	Color: ≤ 0.005 Lux @ F1.6; B/W: ≤ 0.0005 Lux; 0 Lux with IR ON
4		Lens	3.95 mm–177.75 mm motorized varifocal lens or better
5		Optical Zoom	Minimum 45× motorized optical zoom
6		Digital Zoom	16× or better
7		Wide Dynamic Range (WDR)	True WDR of minimum 120 dB or better
8		S/N Ratio	55 dB or higher
9		Electronic Shutter	Auto/Manual, 1/1 s – 1/30,000s or better
10		Image Enhancements	BLC, HLC, 3D DNR, Defog, EIS
11	PTZ Functionality	Pan Range & Speed	360° endless; manual speed 0.1°–260°/s or better
12		Tilt Range & Speed	–20° to +90° (with auto flip); manual speed 0.1°–120°/s or better
13		Presets & Tours	Minimum 300 presets, 5 patterns, 8 tours (Minimum 32 presets per tour), 5 scans; power-off memory supported
14		Privacy Masking	Up to 24 configurable zones
15	Video & Audio	Compression	Must support H.265+, H.265, H.264+, H.264, MJPEG
16		Frame Rate	Full HD (1080p) at 25/30 fps for main stream; additional substreams configurable
17		Streaming Capability	Minimum three (3) independently configurable streams (Triple Stream or better)
18		Audio	1 channel input, 1 channel output; two-way talk supported
19	Intelligence & Analytics	Onboard Analytics	Motion detection, intrusion detection, line crossing, tampering alerts (mandatory)
20		Auto-Tracking	Automatic tracking of moving objects (mandatory)
21	Network & Security	Ethernet	1 × RJ45 (10/100/1000 Base-T)
22		Protocols	IPv4, IPv6, HTTP, HTTPS, TCP/IP, UDP, RTP, RTSP, NTP, SNMP v1/v2/v3, IGMP, QoS, FTP, DHCP, DNS, UPnP, PPPoE; ONVIF Profiles S/G/T (verifiable on ONVIF.org)
23		Security Features	HTTPS encryption, IP/MAC filtering, 802.1X authentication, user access logs, signed firmware updates
24	Storage & Alarms	Onboard Storage	Built-in Micro SD of up to 512 GB or higher, with ANR (Auto Network Replenishment) support
25		Alarm I/O	Minimum 2 inputs, 1 output
26	Physical & Environmental	IR Illumination	Smart IR with minimum 500m effective range or better
27		Protection	(IP67 weatherproof, IK10 vandal resistant, TVS ≥6000V surge/voltage transient protection) or better
28		Operating Temperature	up to +65 deg C or wider/better
29		Operating Humidity	up to 95% RH non-condensing or better
30		Housing	Rugged metal body, suitable for pole/wall mount
31	Power	Power Input	24V AC/DC and PoE+ (IEEE 802.3at) dual support
32	Certifications	Certification	STQC
34	OEM Eligibility	Compliance	OEM must be ONVIF Full/User Member; MAC ID registered in OEM's name; country of origin declaration mandatory (products from countries sharing land border with India not acceptable); tender-specific OEM authorization required

24. IP Based 4MP Box camera with IR 150Meter for ANPR VA

S.No	Category	Parameter	Minimum Required Specification
1	Video & Audio	Video Compression	H.265+/H.265/H.264 or better
2		Video Streaming	Multiple streams (Main: 4MP @25fps; Second: 4MP @25fps; Third: D1 @25fps; Fourth: D1 @25fps) or better
3		Audio Input / Output	1 Channel IN / 1 Channel OUT
4		Built in Mic	Yes/Integrated
5		Audio Compression	G.711a, G.711Mu, PCM, G.726 or better
6		Bit Rate	Adjustable, 3 Kbps-6144 Kbps or wider
7	Storage	SD Card	Built-in Micro SD card of up to 512GB or higher
8		Storage	SFTP, NAS, Micro SD card or equivalent
9	Reliability	MTBF	Minimum 100,000 hours or better
10	Power	Power Source	DC12V, ePoE, PoE (IEEE 802.3af), or standard
11	Physical & Environmental	IR Range	External/Internal, Minimum 150 Meter range or better
12		Operating Temperature	up to +60 deg C or wider/better
13		Humidity	up to 95% RH non-condensing or better
14	Network & Security	Protocol	IPv4; IPv6; HTTP; HTTPS, TCP/IP; RTSPS; SMTP; SFTP; DHCP; DNS; NTP; ICMP; IGMP; NFS; PPPoE; SNMP; ONVIF (Profile S/G/T); Unicast, Multicast or industry standard protocols
15		Ethernet	RJ-45 (10/100/1000 Base-T), auto-negotiation or better
16	Memory	RAM	512 MB or higher
17		ROM	128 MB or higher
18	Management	User/Host	20 or more
19	Intelligence & Analytics	Motion Detection	Configurable up to 4 zones or more
20		Alarm IN/Out	Minimum 2 Channel IN, 1 Channel OUT
21	Imaging & Optics	Smart Detection	Tripwire, Intrusion, Abandon/Missing Object, Face Detection, or more
22		Image Sensor	1/2.8" 2 Megapixel Progressive Scan CMOS or better
23		Minimum Illumination	Colour: ≤ 0.0021 Lux @F1.6 or better
24		Effective Pixels	1920(H) × 1080(V) or greater
25		Shutter Speed	Auto/Manual, 1/3 s~1/100,000s or wider
26		White Balance	Auto, Manual, Natural, Street Lamp, Outdoor
27		Lens Mount	C/CS standard
28		Gain Control	Auto or configurable
29		S/N Ratio	56 dB or higher
30		Light Compensation	BLC, HLC
31		Wide Dynamic Range (WDR)	120 dB or higher
32		Defog	Supported/Configurable
33		Privacy Masking	Configurable up to 4 areas or more
34		Mirror	Supported/Configurable
35		Resolution	1080P (1920 × 1080); 1.3MP, 720P, D1, VGA, CIF
36	Cyber Security	Security Features	AES 256-bit, config encryption, trusted execution, security logs, account lockout, syslog, video/IP/MAC filtering, HTTPS, trusted upgrade/boot or equivalent features
37	Certifications	Certification	STQC

25. IP Based 4MP Bullet Camera with IR 150 Meter

S.No	Category	Parameter	Minimum Required Specification
1	Video & Audio	Stream Capability	Triple Stream or more
2		Frame Rate	Main: 2688×1520@(1-20 fps), 2560×1440@(1-25/30fps); Sub streams: D1@(1-25/30 fps)
3		Audio Input / Output	Minimum 1 Channel IN, 1 Channel OUT
4		Video Compression	H.265, H.264, or better
5	Storage	SD Card	Built-in Micro SD card of up to 512GB or higher
6	Power	Power Source	12 VDC / PoE (IEEE 802.3af), or standard
7	Physical & Environmental	Weatherproof Standard	IP67 or higher
8		Operating Temperature	up to +60 deg C or wider/better
9		Operating Humidity	up to 95% RH non-condensing or better
10	Network & Security	Protocol	SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP v1/v2/v3, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S/G/T or equivalent), unicast, multicast
11		Ethernet	RJ-45 (10/100/1000 Base-T), auto-negotiation or better
12	Memory	RAM	128MB or higher
13		ROM	128MB or higher
14	Intelligence & Analytics	Alarm IN/OUT	Minimum 1 Channel IN, 1 Channel OUT
15	Imaging & Optics	Image Sensor	1/2.9" 4MP Progressive Scan CMOS or better
16		Effective Pixels	2688(H) × 1520(V) or greater
17		Minimum Illumination	≤ 0.006 Lux @ F1.6 or better
18		Shutter Speed	1/3 s-1/100,000 s or wider
19		Lens	2.7 mm-13.5 mm Motorized Lens or better
20		S/N Ratio	56 dB or higher
21		Back Light Compensation	BLC, HLC, True WDR (≥120dB)
22		IR LEDs / Warm Light	2 IR LED, 2 warm light or more
23		IR Range	External/Internal, Minimum 150 Meter range or better
24		Warm Light Range	30 Meter or higher
25		Noise Reduction	3D NR or equivalent
26		Resolution	4M (2688×1520), 4M (2560×1440), 3M, 2M, 1.3M, 720p, D1, VGA, CIF, or more
27		Privacy Mask	Up to 4 areas or more
28	Compliance	OEM ONVIF	Full Membership or verifiable equivalent
29	Audio	Built-in Mic	Yes / Integrated
30	Certifications	Mandatory	STQC

26. POINT TO POINT WIRELESS DEVICE (RF) with built-in internal antenna 5GHz 200Mbps 15dBi Outdoor @ 3 km distance or better

S.No	Category	Parameter	Minimum Required Specification
1	Core Performance and Design	Frequency Band	5 GHz band or wider/better Unlicensed National Information Infrastructure (U-NII) bands.
2		Topology	Must support both Point-to-Point (PTP) and Point-to-Multipoint (PMP) operations.
3		Duplexing	TDD (Time Division Duplex) or better/wider technology.
4		Throughput	200 Mbps or better real-world throughput.
5		Maximum Range	3 km or better effective range.
6		Antenna	Built-in Internal Antenna with a minimum gain of 15 dBi or better.
7		Channel Bandwidth	20/40/80/160 MHz to be supported or wider/more flexible/better channel options.
8	Environmental and Power	IP Rating	IP67 or better ingress protection for outdoor operation.
9		Temperature Range	up to +60 deg C or wider/better.
10		Humidity	up to 90% RH non-condensing or better
11		Surge Protection	6Kv Surge Protection or better/wider protection against electrical surges.
12		Power Supply	Must be powered via IEEE 802.3at/af PoE (Power over Ethernet) or better.
13		Dying Gasp	Must provide power backup up to 40ms or better to the PCBA in case of power failure to be able to intimate the peer device of the failure event.
14	Network, Management, and Security	VLAN Support	Must support 802.1Q, Q-in-Q, Transparent, Access, and Trunk VLAN modes or wider.
15		Encryption	WPA/WPA2, AES 128 or better/more secure encryption protocols (e.g., WPA3).
16		Remote Management	Must support SNMP, Web, HTTP/HTTPS or a wider range of secure remote management protocols.
17		IP Stack	Must support both IPv4 and IPv6 (dual stack) from day one.
18		Protocols	Must support Static IP and DHCP client or wider connection protocols.
19		GPS Receiver	Device must be able to receive GPS information and also provide time sync functionality.
20		Diagnostics	Must provide Cable Diagnostics Tools capable of determining the cable length from the PoE injector to the device.
21		Temperature Sensor	Must include a sensor to provide temperature information of the PCBA (Printed Circuit Board Assembly) for diagnostics.
22	Certification	Certifications	(FCC / CE / UL), RoHS, (TEC / MTCTE), Make in India Class 1

27. POINT TO POINT WIRELESS DEVICE (RF) with external antenna 5GHz 800Mbps 23dBi Outdoor @ 15 km distance or better

S.No	Category	Parameter	Minimum Required Specification
1	Core Performance and Design	Frequency Band	5 GHz band or wider/better Unlicensed National Information Infrastructure (U-NII) bands.
2		Topology	Must support both Point-to-Point (PTP) and Point-to-Multipoint (PMP) operations.
3		Duplexing	TDD (Time Division Duplex) or better/wider technology.
4		Throughput	550 Mbps or better real-world throughput (supporting bursts up to 800 Mbps).
5		Maximum Range	15 km or better effective range.
6		Antenna	Designed for use with an External Antenna with a minimum gain of 23 dBi or better.
7		Channel Bandwidth	20/40/80/160 MHz to be supported or wider/more flexible/better channel options.
8	Environmental and Power	IP Rating	IP67 or better ingress protection for robust outdoor operation.
9		Temperature Range	up to +60 deg C or wider/better.
10		Humidity	up to 90% RH non-condensing or better
11		Surge Protection	6Kv Surge Protection or better/wider protection against electrical surges.
12		Power Supply	Must be powered via IEEE 802.3at/af PoE (Power over Ethernet) or better.
13		Dying Gasp	Must provide power backup up to 40ms or better to the PCBA in case of power failure to be able to intimate the peer device of the failure event.
14	Network, Management, and Security	VLAN Support	Must support 802.1Q, Q-in-Q, Transparent, Access, and Trunk VLAN modes or wider.
15		Encryption	WPA/WPA2 using AES-256 encryption or better/more secure recent technology (e.g., WPA3).
16		Remote Management	Must support SNMP, Web, HTTP/HTTPS or a wider range of secure remote management protocols.
17		IP Stack	Must support both IPv4 and IPv6 (dual stack) from day one.
18		Protocols	Must support Static IP and DHCP client or wider connection protocols.
19		GPS Receiver	Device must be able to receive GPS information and also provide time sync functionality.
20		Diagnostics	Must provide Cable Diagnostics Tools capable of determining the cable length from the PoE injector to the device.
21		Temperature Sensor	Must include a sensor to provide temperature information of the PCBA (Printed Circuit Board Assembly) for diagnostics.
22	Certification	Certifications	(FCC / CE / UL), RoHS, (TEC / MTCTE), Make in India Class 1

28. Industrial grade POE Switch

S.No	Category	Parameter	Minimum Required Specification
1	General and Hardware Specifications	Switch Type	Gigabit Rugged Layer 2+ Switch or better.
2		Port Configuration	Minimum of 8 x 10/100/1000BASE-T PoE / PoE+ ports (Duplex, Full, Half) or more, and 2 x 1GE Uplink combo ports (10/100/1000BASE-T/SFP) or better.
3		PoE Budget	Minimum 240W PoE budget or higher.
4		PoE Feature	Must support the Continuous PoE feature to ensure the Powered Device (PD) receives power from the switch even during a power reboot event or an equivalent feature for power continuity.
5		Switching Capacity	Minimum switching capacity of 20 Gbps or more.
6		Power Supply	Redundant Input DC power supply from 48 to 57 VDC or better/wider input range for industrial application.
7		Environmental	up to +75 deg C or wider/better. Must have a minimum IP-30 enclosure rating or better.
8		Auto-Negotiate	All ports should support auto-negotiate, flow control (802.3x), port security, and MAC filtering or wider standard features.
9	Layer 2 and Ring Protection Features	VLAN Support	Must support Port-based, 802.1Q tag-based VLANs, MAC-based VLAN, Private VLAN, Voice VLAN, QinQ, and GVRP or a wider range of VLAN standards.
10		Ring/Loop Protection	Must support ring protection protocols including STP, RSTP, MSTP, and ERPS/Ring Protection or equivalent industry-standard protocols.
11		Link Aggregation	Must support IEEE 802.3ad Link Aggregation Control Protocol (LACP) or better.
12		Multicast	Must support IGMP snooping v1, 2 & 3 supporting a minimum of 1K multicast groups or more.
13		Port Security	Must support Port Security based on MAC address, with an aging feature to remove the MAC address after a specific time to allow another device to connect or better security control.
14	Layer 3 and Security Features	IP Protocol Support	Must be IPv4 and IPv6 ready from day one.
15		Routing	Must support Static Routing for IPv4 and IPv6 (Layer 3 capabilities) or wider dynamic routing protocols.
16		Access Control List (ACL)	Must support ACL for L2-L4 types or wider/more granular packet filtering.
17		Authentication (802.1X)	Must support IEEE 802.1X including RADIUS authentication, authorization, and accounting, MD5 hash, Guest VLAN, single/multiple host/session mode, IGMP-RADIUS based 802.1X, and Dynamic VLAN assignment or wider/more secure features.
18		Management Security	Must offer Multilevel security on console access to prevent unauthorized users from altering the switch configuration or better access control.
19	Management and Diagnostics	Management Interface	Should have a console port for administration and management through CLI and a web-based GUI for easy management.
20		Protocols	Must support DHCP Server, DHCP (including option 82), DHCP Relay, NTP or equivalent, SNMPv1, v2 & v3, TELNET/SSH or wider.
21		Diagnostics	Must support Web/SSL, Telnet server/SSH, ping, traceroute, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, and syslog or a wider range of diagnostics and logging protocols.
22	Certification	Certifications	(FCC / CE / UL), RoHS, (TEC / MTCTE)

29. IP based Horn type Speakers			
S.No	Category	Parameter	Minimum Required Specification
1	Core Functionality and Performance	Speaker Type	IP-Based Horn Type Speaker with integrated network audio and amplification functionality.
2		Maximum Output Power	Maximum output power of 10W or higher.
3		Maximum Sound Pressure Level (SPL)	Maximum SPL of 120 dB or better.
4		Sensitivity (1M, 1W)	Minimum sensitivity of 109 dB \pm 3 dB or better.
5		Signal-to-Noise Ratio (SNR)	85 dB or higher
6		Frequency Response	Frequency response between 280 Hz–12.5 kHz or wider/better.
7		Ambient Noise Control	Must support Ambient Noise Detection and Automatic Volume Control based on the ambient noise level, or a wider range of equivalent adaptive audio features.
8	Connectivity and Audio Standards	Network Interface	Minimum 1 x 10/100 Base-T network port (RJ-45) or a higher speed/wider standard network port.
9		Power over Ethernet (PoE)	Must support IEEE 802.3af or 802.3at Power over Ethernet (PoE/PoE+) or wider.
10		Audio Compression	Support for industry-standard audio compression formats, including G.711a, G.711u, and G.722 or a wider range of codecs.
11		Audio Sampling/Bit Rate	Support for an Audio Sampling Rate between 8 kHz–44.1 kHz or wider, and a Bit Rate between 8 kbps–320 kbps or wider.
12		Protocols	Support for essential networking and communication protocols, including HTTP, TCP/IP, UDP, IGMP, ICMP, ARP, SIP, ONVIF, IPv4, and RTP or a wider range of industry-standard protocols.
13		SIP Integration	Must support Session Initiation Protocol (SIP) for audio announcements from any IP phone/VoIP system or wider third-party integration.
14		Operation and Management	Management Interface
15	Remote Volume Control		Must support remote volume adjustment managed from a central server software or wider system management capability.
16	Trigger Functions		Must support Trigger functions to play pre-recorded or live messages or a wider range of event-based playback features.
17	Construction and Environmental	Ingress Protection (IP) Rating	Minimum IP66 rated or better for superior protection against dust and high-pressure water jets.
18		Operating Temperature	up to +70 deg C or wider/better.
19		Operating Humidity	up to 90% RH non-condensing or wider/better tolerance.
20		Accessories	The necessary mounting kit must be included with the speaker unit or better.
21	Vendor Requirements	OEM Support Details	Bidder must provide the Original Equipment Manufacturer (OEM) direct presence details, including but not limited to official email, Toll-free number, and Web portal access, along with a formal Escalation Matrix or wider support documentation, as part of the Bid submission.

30. 30W IP Based Column Speaker			
S.No	Category	Parameter	Minimum Required Specification
1	Core Functionality and Performance	Speaker Type	IP-Based Column Speaker that integrates a network audio decoder, digital amplifier, and loudspeaker unit or a wider range of equivalent integrated features.
2		Maximum Power Output	Maximum power output of 30W or higher.
3		Sensitivity (1M, 1W)	Minimum sensitivity of 87 dB or better.
4		Signal-to-Noise Ratio (SNR)	80 dB or higher
5		Frequency Response	Frequency response between 45 Hz–18 kHz (±3 dB) or wider/better.
6		Ambient Noise Detection	Must support Ambient Noise Detection or an equivalent industry-standard feature for automatic volume adjustment.
7		Remote Volume Control	Must support remote volume adjustment managed from a central server software or wider system management capability.
8	Connectivity and Audio Standards	Network Interface	Minimum 1 x 10/100 Base-T network port (RJ-45) or a higher speed/wider standard network port.
9		Audio Codecs	Support for industry-standard audio codec formats, including G.711u/a, G.722 (ADPCM), PCM, and MP3 or a wider range of codecs.
10		Audio Sampling/Bit Rate	Support for an Audio Sampling Rate between 8 kHz–44.1 kHz or wider, and a Bit Rate between 16 kbps–320 kbps or wider.
11		Protocols	Support for essential networking protocols including TCP/IP, UDP, HTTP, and crucial communication protocols such as Session Initiation Protocol (SIP) or a wider range of industry-standard protocols.
12		SIP Integration	Must support Session Initiation Protocol (SIP) for easy integration with mainstream SIP PBX or wider third-party systems.
13	Bluetooth Streaming	Must support mobile phone Bluetooth compatibility or an equivalent industry-standard wireless technology for music streaming.	
14	Construction and Environmental	Ingress Protection (IP) Rating	Minimum IPX5 rated or better for protection against environmental factors.
15		Chassis Material	The speaker shell shall be made of Aluminium alloy or a better, sturdy, and corrosion-resistant material.
16		Mounting	Must be wall-mountable and supplied with the necessary mounting kit.
17		Operating Temperature	up to +55 deg C or wider/better.
18	Operating Humidity	up to 90% RH non-condensing or wider/better.	
19	Power and Management	Power Options	Must support dual power input options: DC 24V, 1.5A or better, AND Power over Ethernet (PoE) or wider/better.
20		Management Interface	The speaker must be manageable through a Web GUI or other secure, industry-standard remote configuration interface.
21		Accessories	The mounting kit and power adapter must be included with the speaker unit or better.
22	Vendor Requirements	OEM Support Details	Bidder must provide the Original Equipment Manufacturer (OEM) direct presence details, including but not limited to official email, Toll-free number, and Web portal access, along with a formal Escalation Matrix or wider support documentation, as part of the Bid submission.

31. CAT 6 UTP Cable

S.No	Category	Parameter	Minimum Required Specification
1	Core Cable Construction	Conductor Metal	Solid Bare Copper or better.
2		Conductor Diameter	23 AWG (0.57 mm±0.015 mm) or better.
3		Cable Structure	4 twisted pairs separated by an internal X-shaped, 4-channel, polymer spine / full separator or better/more robust isolation method. Half separators shall not be accepted.
4		Sheath Material	Fire Retardant PVC Compound (FRPVC) or better (e.g., Low Smoke Zero Halogen - LSZH, wherever required).
5		Packaging and Marking	Standard length of 305 Meters (1000 Feet) Per Box package or similar standard packaging. Must include Sequential Meter Marking or better/wider length indication.
6	Performance and Standards	Supported Applications	Support for Fast and Gigabit Ethernet or wider/higher speed applications (e.g., 2.5GBASE-T).
7		Bandwidth	Cable shall meet the transmission characteristics specified to 250 MHz or wider/better.
8		Performance Certification	Cable shall be compliant with ANSI/TIA-568.2-D channel performance and must be ANSI/TIA-568.2-D certified.
9		Safety Certification	Must be certified to industry safety standards including UL and IEC 60332-1 (Flame Retardancy).

32. Optical Fiber Cable

S.No	Category	Parameter	Minimum Required Specification
1	Core Cable and Fiber Specifications	Cable Type	12 core, single mode, armored, loose-tube, gel filled or better/wider protective design.
2		Fiber Type	Single mode 9/125 with 250 micron primary coated buffers or better.
3		Number of Cores	12 core minimum. The raw fiber is preferably Corning make and should meet ISO 11801-OS2 classification or better.
4		Fiber Core Standards	Must comply with Telecordia GR20, ITU-T G.652D, IEC-60793-2-50, and TIA/EIA 492-CAAB or wider/more current relevant industry standards.
5		Armor Type	Corrugated Steel Tape Armor or better/more robust industrial-grade armor for rodent and crush resistance.
6		Cable Construction	Standard Compliance: G.652 or equivalent.
7	Performance and Accessories	Marking	Sequential Meter Marking is Required or better/wider length indication.
8		Bandwidth Support	Must support transmission at 10 Gigabits or higher bandwidth over its operational distance.
9		Accessories	All necessary suitable connectors, modules (e.g., SFP/SFP+), and other accessories must be supplied and confirmed to be compatible for providing end-to-end connectivity.

33. 24 Port Fully Loaded LIU

S.No	Category	Parameter	Minimum Required Specification
1	General and Construction	Mount	1U Rack Mount, Modular type or better/more robust design.
2		Capacity	Must support a total termination capacity of 24 cores.
3		Cable Entry/Exit	Should have at least one cable entry and one cable exit with appropriate Glands or better strain relief mechanisms.
4		Splice Tray	Must be fitted with a 24 core Splice tray or multiple trays totaling 24 core capacity.
5		Adaptor Plate	Should be fitted with a 24 Core support removable Adaptor plate or modular panels totaling 24 core capacity.
6	Loading Components	SM Adaptor Loading	Loaded with 12 numbers of Duplex LC/SC Adaptors or 24 numbers of Simplex LC/SC Adaptors for a total of 24 cores. Adaptors must feature a Zirconia Sleeve for superior alignment and compatibility with both SM/MM Fiber.
7		Pigtail Loading	Loaded with 24 numbers of Pigtail LC/SC connectors compatible with SM/MM fiber. Each pigtail must be 1 Meter length and have a 0.9 mm thickness or better/more durable construction.

34. 75" LED display			
S.No	Category	Parameter	Minimum Required Specification
1	Display Core Specifications	Display Size	190.5 cm (75") diagonal or higher.
2		Back Light Unit	DLED (Direct LED) or better
3		Brightness (typ)	500 cd/m ² (nits) or higher.
4		High Haze	Haze 28% (Anti-glare treatment) or better.
5		Life Time	60,000 Hours or higher.
6		Operation Time	7 days x 24 hours (Designed for continuous operation).
7		Orientation	Support for Landscape & Portrait display orientation.
8		Structure	Metal Frame and Metal Rear cover for durability and heat dissipation.
9	System and Smart Features	System Version	Android 11 or higher.
10		CPU	A55*4 (Quad-Core) or better.
11		GPU	MaliG51 MP2 or better.
12		RAM	4 GB or higher.
13		ROM (Storage)	32 GB or higher.
14		Casting	Built-in support for Miracast and/or others (e.g. Apple Airplay)
15		Auto Features	Auto Wake Up and Auto Switching on HDMI is Required.
16		Installation Support	20° Tilt or better installation support is Required.
17		Auto Rotation	Content Auto Rotate in Vertical installation is Required.
18		OPS Slot	80 Pin OPS (Open Pluggable Specification) Slot or equivalent.
19	WIFI	Built-in WIFI is Required.	
20	Connectors and Audio	HDMI IN	Min. 2 (HDMI 2.0) or higher.
21		HDMI Output	Min. 1 (HDMI Daisy chain, up to 3x3 or better daisy chain capability).
22		USB 2.0	Min. 1 (F/W update / Media Play) or more.
23		USB 3.0	Min. 1 (F/W update / Media Play) or more.
24		USB Type-C	1 port supporting DP1.2, PD 65W, and Network Sharing (100M) or better multi-functional capability
25		LAN (RJ45)	Min. 1 (10M/100M/1000M) or 1 Gigabit Ethernet port.
26		RS232	Min. 1 (for control) or more.
27		Digital Audio Out	Min. Optical*1 (Coaxial/Optical Output) or more
28		Analog Audio Out	Min. 1 x 3.5mm Audio Output or more
29		Speaker Type	Built-in Speaker.
30		Speaker Power	2 x 12 W or higher.
31	Power and Environmental	Power Requirements	100-240V~ 50/60Hz (Universal AC Input).
32		Standby Power	≤0.5 W or lower.
33		Overall Power (nominal)	235 W (Typical) or lower.
34		Operation Temperature	up to 45 deg C or wider/better.
35		Operation Humidity	up to 90% RH non-condensing or better
36	Certification	Certification	FCC / CE / UL/ BIS and RoHS

35. 5KVA online UPS with 4 hour Backup

S.No	Category	Parameter	Minimum Required Specification
1	Core Performance and Design	Rating in KVA	5.0 KVA (or higher).
2		Technology	IGBT – PWM / SPWM (Insulated Gate Bipolar Transistor - Pulse Width Modulation / Sinusoidal Pulse Width Modulation) or equivalent latest online double-conversion technology.
3		Overall Efficiency	80% - 90% or above.
4		Inbuilt Transformer	Inbuilt Isolation Transformer is Required.
5		Voltage Regulation	1% from No Load to Full Load.
6		Total Harmonic Distortion (THD)	≤4% or better (lower) distortion.
7		Degree of Protection	IP21 or better/wider protection rating.
8		Overload Capability	Must support 20% Overload Limit for a Minimum of 10 minutes and 50% Overload Limit for a Minimum of 1 minute or better
9	Input, Output, and Battery	Input Voltage Range	Minimum Single Phase ≤180V sinewave, 50 Hz. Maximum Single Phase ≥260V sinewave, 50 Hz.
10		Output Power	Single Phase 230V±1% Sinewave, 50 Hz.
11		Backup Time	4 hour at full load or better.
12		Type of Battery	SMF-VRLA (Sealed Maintenance Free - Valve Regulated Lead Acid) conforming to JISC:8702 (Pt.I, II & III) and/or IEC 60896-21/22.
13		Battery Stand	Suitable stand for batteries is Required.
14	Protection, Monitoring, and Warranty	UPS Protection	Protection of Over Voltage, Short Circuit & Over Load at UPS Output terminal is Required.
15		Battery Protection	Protection of Under Voltage at Battery terminal at 10.5V per 12V Battery is Required.
16		Indicators	Indicators for Mains Presence, Battery Charging and Discharging, Output Over Load, Low Battery Voltage are Required.
17		Digital Metering	Digital Metering In UPS for AC Input Voltage, Output AC Voltage, Current, Frequency, Battery Voltage and Current is Required.
18		Temperature	up to 45 deg C or wider/better.
19		Certification	Must possess certification from ISO/BIS/NABL/ILAC.

S.No	Miscellaneous
1	Complete chemical earthing including electrode, backfilling compound, copper/GI strip connection, associated piping, fixtures, and protective chambers shall be in the bidder's scope. The system should be installed in accordance with standard safety practices to ensure reliable protection against lightning and surges.
2	Appropriate fire extinguishers conforming to IS/UL standards (such as ABC/CO ₂ type) shall be provided and installed by the bidder at all necessary locations to ensure fire safety compliance.
3	NLCIL has specified major components required for the ICCS system. However, any additional accessories or components—whether hardware, software, cabling, converters, connectors, fasteners, enclosures, etc.—that are necessary for the complete and functional integration and commissioning of the system must be supplied, installed, and maintained by the successful bidder at no additional cost to NLCIL.
5	All wiring, cabling, terminations, and patching shall be done in accordance with EIA/TIA standards. Cables shall be clearly labeled with durable, non-perishable markers. All cabling should be neatly secured, traceable, documented (with proper schematics), and shall comply with best practices for performance, safety, and maintainability.
6	All installed equipment must be securely mounted in a neat, accessible, and maintenance-friendly manner, adhering to industry or statutory standards. This includes: Switches and servers in appropriate racks; power equipment in secure, ventilated enclosures or stands; and any site-specific enclosures or accessories required for protection or integration shall be provided without extra cost by the bidder.
7	All hardware, software, and associated components offered under this contract shall comply with national standards, industry best practices, and certifications, wherever applicable, to ensure performance, safety, security, and seamless integration.
8	A backup copy of footages (at least 15 days) in a remote location for Disaster Recovery
9	Local storage with capacity up to minimum 3 days of footage shall be in cameras
10	All componenets to be supply under this tender shall have compliance with the Ministry of Electronics and Information Technology (MeitY) Office Memorandum dated 26th April 2024, wherever required.
11	As part of IT Infrastructure standardization and for minimizing the attack surface to ensure cyber security, the servers provisioned for VMS/VA and storage may be installed with Suitable Licensed operating system (licenses may be procured with OEM support for security patching).
12	Firewalls in internal zone are standardized and the specification given below or better may be used for firewall : Firewall appliance with minimum 8x 1G Ethernet port, 1x USB, 1 x console port with essential Protection Services Suite (EPSS) includes Capture Advanced Threat Protection, Gateway Antivirus. Anti Spyware, Intrusion Prevention, Application Firewall Service, Content Filtering, Premium Services, AntiSpam Services and 24x7 support.



एनएलसी इंडिया लिमिटेड
NLC INDIA LIMITED
("NAVRATNA" GOVERNMENT OF INDIA ENTERPRISE)
कार्यपालक निदेशक / खान का कार्यालय
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**TENDER SCHEDULE
(SCHEDULE I)**

SAP Schedule no : 0033003516/00010/ Neat Ref.No.GEM/2025/B/6999774		Tender no : MINES/TURKEY/CS/DCB/D015/2025-26				
EMD Amount : 8193000		Plant : MINE-I				
Name of the work :		Mines-Turnkey-CS-Supply, Installation, testing & commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with VMS and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL HQ, along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP-Cameras with three years warranty and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions.				
Period of work :		1. For Supply of all materials (excluding deployment of technical manpower) as given in schedule - Within 90 days from the date of LOA. 2. For Installation, testing & commissioning (along with Civil Works) - Within 180 days from the date of LOA. 3. Warranty Period - 03 years from immediately next day from the date of Commissioning of the system i.e. 36 months 4. CAMC Period - 03 years from the next day of completion of warranty period of the system i.e. 36 months Note : The overall contract period is 06 years and 06 months i.e. 78 months from the date of LoA.				
S.no	Description of work	Qty	UoM	Unit Rate(Rs.)	Per Unit	Amount (Rs.)
SITC(01)						
1.	Supply, Installation, Testing & Commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with Video Management Software (VMS) and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL Headquarter (HQ), along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP cameras along with necessary licenses and permissions with three years warranty from the next day of commissioning. Note: The bidder shall enter the individual rate against each BoQ item (List provided as Annexure A) and the aggregate of these values shall constitute the SITC value to be entered here. Charges towards manpower deployment during the SITC and warranty periods shall not be reimbursed separately, and therefore the SITC value quoted shall be inclusive of these costs. Bidders are advised to quote accordingly.	1.000	SET		1	
Subtotal of SITC(01)						
Total Schedule - I Tender Value: (01)						
Total Value in words						
Note:						
1. The Tenderer should quote their rate for all items of the work described in the Schedule.						
2. Actual execution of work for a particular year shall be restricted to quantities mentioned in the Schedule. In case of need for enhancement over the Schedule quantities, specific approval of competent authority shall be obtained.						
3. The bidders are advised to go through all the terms and conditions of this tender before quoting. The bidders are also informed that the provisions made in Schedule-II, only will be reimbursed. All other payments payable to the workmen/supervisor(s) as per agreement conditions are to be borne by the contractor only, which are not reimbursable. Pleading ignorance at a later stage is not acceptable. Please refer the check list-2 and relevant tender conditions for reimbursable/non-reimbursable provisions in this regard.						



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**TENDER SCHEDULE
(SCHEDULE I)**

SAP Schedule no : 0033003516/00020/ Neat Ref.No.GEM/2025/B/6999774	Tender no : MINES/TURKEY/CS/DCB/D015/2025-26
EMD Amount : 8193000	Plant : MINE-I
Name of the work : Mines-Turnkey-CS-Supply, Installation, testing & commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with VMS and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL HQ, along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP-Cameras with three years warranty and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions.	

Period of work :	<ol style="list-style-type: none">1. For Supply of all materials (excluding deployment of technical manpower) as given in schedule - Within 90 days from the date of LOA.2. For Installation, testing & commissioning (along with Civil Works) - Within 180 days from the date of LOA.3. Warranty Period - 03 years from immediately next day from the date of Commissioning of the system i.e. 36 months4. CAMC Period - 03 years from the next day of completion of warranty period of the system i.e. 36 months <p>Note : The overall contract period is 06 years and 06 months i.e. 78 months from the date of LoA.</p>
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S.no	Description of work	Qty	UoM	Unit Rate(Rs.)	Per Unit	Amount (Rs.)
CAMC(01)						
1.	CAMC charges for 1st year after warranty period Note: The bidders shall quote the CAMC charges for each year minimum @10% of Total bid value(excluding GST). CAMC Cost shall be inclusive of Cost for technical manpower deployment.	1.000	LSM		1	
2.	CAMC charges for 2nd year after warranty period. Note: The bidders shall quote the CAMC charges for each year minimum @10% of Total bid value(excluding GST). CAMC Cost shall be inclusive of Cost for technical manpower deployment.	1.000	LSM		1	
3.	CAMC charges for 3rd year after warranty period. Note: The bidders shall quote the CAMC charges for each year minimum @10% of Total bid value(excluding GST). CAMC Cost shall be inclusive of Cost for technical manpower deployment.	1.000	LSM		1	

Subtotal of CAMC(01)

Total Schedule - I Tender Value: (01)
--

Total Value in words

Note:
1. The Tenderer should quote their rate for all items of the work described in the Schedule.
2. Actual execution of work for a particular year shall be restricted to quantities mentioned in the Schedule. In case of need for enhancement over the Schedule quantities, specific approval of competent authority shall be obtained.
3. The bidders are advised to go through all the terms and conditions of this tender before quoting. The bidders are also informed that the provisions made in Schedule-II, only will be reimbursed. All other payments payable to the workmen/supervisor(s) as per agreement conditions are to be borne by the contractor only, which are not reimbursable. Pleading ignorance at a later stage is not acceptable. Please refer the check list-2 and relevant tender conditions for reimbursable/non-reimbursable provisions in this regard.

**ADDITIONAL PROVISIONS
(SCHEDULE II)**

S.no	Description of work	Qty	UoM	Unit Rate(Rs.)	Per Unit	Amount (Rs.)
Provisions(02)						
Subtotal of Provisions(02)						
Total Schedule - II Tender Value: (02)						NIL
Total Value in words NIL						
Total Tender Value (Schedule-I + Schedule-II)						

Note:The Tenderer should quote their rates for Schedule-I items only.

GST wherever applicable shall be reimbursed and regulated on the basis of rates in force from time to time.

UoM(Unit of Measure) : SET:Set

Scope of work, duties of the contractor and obligation of NLCIL :

Scope of Work:

Supply, Installation, Testing & Commissioning (SITC) of Integrated Command & Control Centre (ICCC) for CCTV surveillance system with Video Management Software (VMS) and Artificial Intelligence (AI) based Video Analytics (VA) at NLCIL Headquarter (HQ), along with five Unit Monitoring Station and CCTV Surveillance system at NLCIL Mines as per site requirements for centralized monitoring of live footage of IP cameras with three years warranty from the next day of commissioning and three years of CAMC from the next day of completion of warranty along with necessary licenses and permissions - 1 Set.

1 Set of above work consists of the following:

- Supply, Installation, Testing & Commissioning (SITC) of one Integrated Command & Control Centre (ICCC) with Video Management Software (VMS) and AI based Video Analytics (VA) Software for 500 Nos. of CCTV IP cameras (150 Nos. New and 350 Nos. Existing) in NLCIL Headquarter (HQ), Neyveli, Tamil Nadu.
- Supply, Installation, Testing & Commissioning (SITC) of five Unit Monitoring Station at following NLCIL Mines Unit:

i. Mine-I & IA at Neyveli, Tamil Nadu

ii. Mine-II at Neyveli, Tamil Nadu

iii. Talabira II& III OCP at Jharsuguda, Odisha

iv. Barsingsar Mines at Barsingsar, Rajasthan

v. Pachwara South Coal Block, Jharkhand

3. Supply, Installation, Testing & Commissioning (SITC) of CCTV cameras surveillance system with 150 Nos. of new CCTV IP cameras, wireless data communication network connectivity through RF wireless modem and other accessories in following NLCIL Mines viz. Mine-I, Mine-IA, Mine-II at Neyveli, Tamil Nadu, Talabira II& III OCP at Odisha, Barsingsar Mines at Rajasthan and Pachwara South Coal Block, Jharkhand.

with three-years of warranty from the next day of commissioning and three-years of CAMC after warranty period for the entire installed system along with necessary licenses and permissions.

B. PERIOD OF WORK:

- For Supply of all materials (excluding deployment of technical manpower) as given in schedule Within 90 days from the date of LOA
- For Installation, testing & commissioning (along with Civil Works) Within 180 days from the date of LOA
- Warranty Period 03 years from immediately next day from the date of Commissioning of the system i.e. 36 months
- CAMC Period 03 years from the next day of completion of warranty period of the system i.e. 36 months

Note: Hence, the overall contract period is 06 years and 06 months i.e. 78 months from the date of LoA.

C. DUTIES OF CONTRACTOR:

1. ICCC at NLCIL HQ Neyveli:

i. One fully furnished Integrated Command & Control Centre (ICCC) is to be established in NLCIL HQ Neyveli for effective centralized monitoring and analyzing various events of video feeds through VMS and AI based VA of various CCTV IP Camera footages installed in multiple locations of the NLCIL mines and other establishments of NLCIL with 90 days backup storage.

ii. The ICCC is to be equipped with necessary processing, sufficient suitable storage and video management software capacities for viewing and storage of 500 Nos. of CCTV IP Cameras footage at NLCIL HQ which included 150 nos. of new IP based CCTV cameras and 350 nos. of existing IP based CCTV cameras.

iii. The ICCC is to be equipped with state-of-the-art Video Analytics for minimum 500 Nos. of CCTV Cameras for detection and intimation of various types of specified events as defined later. All video analytics shall be run-on real-time basis.

iv. The successful bidder shall deploy two manpower on 24x7 basis during warranty and CAMC period at ICCC NLCIL HQ Neyveli in each shift (03 shifts in a day). The deployed manpower shall be experienced and technically qualified (i.e. Diploma/Graduation) having sufficient skill for handling VMS and VA, analyzing, reporting, troubleshooting etc.

v. The successful bidder shall have to submit copy of qualification documents/certificates of the deployed manpower to NLCIL.

vi. The manpower deployed at ICCC NLCIL HQ Neyveli shall provide all technical assistance, if required by NLCIL Personnel at any time. They should also possess required skill and proficiency to impart necessary training in the work of operation of ICCC including generation of reports.

vii. The successful bidder shall provide adequate training to the manpower of NLCIL in respective domains of the ICCC as per clause 41 under F. SPECIAL CONDITIONS.

viii. The solution must be scalable, interoperable, and modular with integration capabilities for CCTV surveillance system, GPS based Vehicle Tracking Systems (VTS), Fuel Management Systems (FMS) and other upcoming applications/systems and provide the monitoring of their live data and reports as per the requirement of the NLCIL. The successful bidder shall be responsible for such integration by providing comprehensive API (Application Program Interface) or SDK (Software Development's Kit) to allow interfacing and integration with existing systems and future application and also provide multiple system summary and correlation data in a single unified dashboard. For this purpose, the successful bidder shall work in coordination with the extant vendor(s) of NLCIL for integration of above-mentioned technologies with ICCC.

2. Unit Monitoring Stations at NLCIL Mines site location:

i. The successful bidder shall establish fully furnished Unit Monitoring Station with furniture, interior design and identity-based access at five locations in NLCIL Mines Unit as per the given specification. The required Items, furniture and interior for Unit monitoring station are given in the Schedule. All 5 Unit Monitoring

Station shall be used for monitoring of the live activity through VMS of different locations of respective Mines.

- ii. The successful bidder shall deploy one technical manpower on 24x7 basis during warranty and CAMC period at each of the five Unit Monitoring Station in each shift (03 shifts in a day) for monitoring, reporting the abnormal situations to the NLCIL authority and any technical troubleshooting during entire contract period.
 - iii. All the five Unit Monitoring Station shall be connected to the centralized ICCC, NLCIL HQ Neyveli through ILL/MPLS provided by NLCIL. The locations shall have additional cameras, Local VMS, Workstations, online UPS with SNMP for remote monitoring, Industrial Air conditioner with remote monitoring feature, Network switches, OFC & CAT6 cable as per requirement, Racks, 75" LED displays, Firewall, Tables & Chairs, Chemical Earthing etc.,
3. Installation of CCTV Surveillance system at NLCIL Mines site location:
- i. The successful bidder shall install 150 nos. of new IP based CCTV cameras with wireless data network connectivity through RF modem, poles & towers and other accessories in NLCIL Mines as per instruction given by NLCIL official. Suitable supporting channels/angles/frames for camera supporting arrangement are to be provided with necessary bolts and nuts for permanent fixing by the firm. Cameras/RF modems shall be mounted on existing building roof/ tower/ structure or offered pole(s)/towers. All Camera/RF Modems connectors shall be provided with water proof and dust proof housing. The CCTV Cameras Surveillance system will be operational on 24 x 7 basis.
 - ii. The works shall be carried out as per instruction of officials of NLCIL and according to the terms and conditions of the contract. The successful bidder shall arrange for all tools/tackles, testing instruments, software, etc., as required to execute the work during installation, testing, commissioning and maintenance period.
 - iii. The CCTV surveillance system shall have outdoor IP Cameras with inbuilt storage and NVR with storage capacity of minimum 15 days of recording.
 - iv. There will be provision for viewing the live camera feed and replaying the cameras footage at remote locations. As per direction of NLCIL officials, some of PCs/Laptop should be configured for monitoring the live footage and replaying of recorded footage.
 - v. All cost and charges for establishing and successful functioning of CCTV Surveillance System shall be in the scope of the successful bidder.
 - vi. The successful bidder shall undertake to make necessary modification in the CCTV Surveillance System as per instructions of NLCIL officials.

D. BRIEF DETAILS OF WORKING IP - CAMERA SYSTEM OF NLCIL:

1. Presently IP based CCTV cameras are installed at Weighbridges, Coal Stock, Mine viewpoints, Coal Sidings, Check post, Magazines, Yards, stores & other critical locations at various Mines/Units of NLCIL.
2. The category of existing IP Cameras are Bullet and PTZ type of different Makes i.e, Honeywell, Hikvision, CP Plus, Matrix, Norden, Dahua, Hi-focus etc. NVR installed at NLCIL Mines are of Honeywell, CP Plus, Matrix, Norden, Dahua, Hi-focus etc. The video footage from IP-Cameras installed at fields is received at recording/ storage devices of Mines through wireless connectivity using RF modems.
3. The video footage from IP-Cameras installed at NLCIL Mines is received at recording/ storage devices in NVRs at various location through RF modem based wireless data connectivity or OFC cable of NLCIL's LAN/WAN network.

E. OBLIGATION OF NLCIL:

1. NLCIL shall provide a suitable room for establishment of ICCC at NLCIL HQ Neyveli and Unit Monitoring Station at NLCIL Mines.
2. The ILL/MPLS Network of required bandwidth shall be provided by NLCIL in the all the above-mentioned five Unit Monitoring Station sites and at ICCC, Neyveli HQ.
3. The work including material(s) is subject to inspection at all times by the NLCIL.
4. NLCIL reserves right to test all the materials supplied randomly if required at CARD (testing unit of NLCIL) or any other approved/accredited laboratories and the result will be binding on successful bidder.
5. The material will be rejected if they fail during the tests conducted by NLCIL on receipt at NLCIL site.
6. NLCIL may decide to randomly inspect work/material at any of the work execution stage(s) through NLCIL representative(s). Such inspection shall be in accordance with standard test(s) and procedure(s).
7. During warranty/CAMC period, in case of any fault/breakdown of system, NLCIL will inform the successful bidder through mobile/ email/ WhatsApp etc.
8. On submission of invoice bills by successful bidder, NLCIL shall process the bills and make payment subject to satisfactory completion of work and as per terms and conditions.

Special Conditions :

F. SPECIAL CONDITIONS:

1. Location of Work – Above ground level
2. Nature of Work – Turnkey
3. Validity of Contract period - The contract for offered ICCC system will be valid for a period of 06 (Six) years and 06 months i.e. 78 months from the date of LoA. The contract period and validity may extend with mutual consent of both NLCIL and firm on pro rata basis, if required.
4. Supply of the tendered items at consignee locations with installation and commissioning of supplied items at NLCIL HQ as well as at respective Mines within the specified delivery period.
5. The successful bidder has to take up the contract on turnkey basis. All Items installed should be sufficiently robust and should be suitably corrosion resistant, weather tolerant and vandal resistant. The network and electrical cabling should be robust and tamper proof for ensuring proper Monitoring functioning. Placement for all outdoor/indoor equipment should be done to ensure reasonably good protection.
6. The successful bidder shall provide secured, reliable, foolproof and tamperproof digital solution for the commissioned ICCC room at NLCIL HQ, Neyveli and Unit Monitoring Station at NLCIL Mines to record attendance of the deployed manpower, all movement of visitors and authorized persons and to restrict entry of any unauthorized person in the premises.
7. The network and electrical cabling shall be robust and tamper proof for ensuring proper functioning of the system. Placement for all outdoor/indoor equipment should be done to ensure reasonably good protection.
8. The responsibility of successful bidder is to design, develop, supply, installation, testing and commissioning of the one no. Integrated Command & control Centre (ICCC) at Neyveli for 500 CCTV cameras (150 nos. New and 350 nos. Existing), five nos. Unit Monitoring station at NLCIL Mines and CCTV surveillance system with 150 nos. of new IP based CCTV cameras Surveillance system wireless data connectivity through RF modem in NLCIL Mines with three years of warranty and three years of CAMC after warranty of the system.
9. The installed ICCC system shall have centralized access to the Unit Monitoring Station of NLCIL Mines through ILL / MPLS connectivity provided by NLCIL.
10. The live video footage of 500 cameras shall be recorded including event / alert recording for a minimum period of 90 days.

Note:

For the above-mentioned analytics, the rules to be defined, wherever required, shall be done as per NLCIL.

11. The installation, commissioning and technical support of software for the supplied VMS and video analytic features for the entire period of the contract shall be done by the successful bidder.
12. The designed and offered solution shall have the capacity to cater to approx. 750 Nos. IP Cameras as and when required by NLCIL in future.
13. The new NVRs/Cameras shall be installed and configured at each of the NLCIL Mines. The video feeds from each NVR/camera will be transmitted and recorded/analyzed in Server installed at the corresponding Unit Monitoring Station as well as ICCC HQ Neyveli. The video feeds shall be transmitted and stored at ICCC, NLCIL HQ Neyveli for processing through VA & VMS installed at ICCC, NLCIL HQ Neyveli on real time basis . SMS/Email/WhatsApp alert shall be generated for any deviation or abnormal activity. It shall be the responsibility of the successful bidder to integrate the existing cameras of various makes and models with the NVR, VMS and VA software. Further the ICCC system has to be scalable in nature and should be able to integrate any additional NVRs/Cameras

which may be installed in future depending on requirements of NLCIL. The successful bidder in such conditions should communicate to NLCIL the required technical parameters of the NVRs/cameras to be procured to ensure compatibility.

14. The successful bidder has to ensure that continuous testing/ configurations for successful functioning of the ICCC system should be done on regular basis. The ICCC system should have a feature to show the logs of all such modifications in the software.

15. The platform software for installation of VMS, VA software, etc. must be enterprise licensed. Any Home editions shall not be acceptable. All IT Components supplied against this bid should support IPv4 and IPv6.

16. Maintaining proper hygiene and cleanliness of and around the commissioned system at ICCC NLCIL HQ Neyveli and Unit Monitoring station at NLCIL Mines shall be in the scope of Contractor.

17. During the period of the contract, the successful bidder shall be responsible for customization of the solution as per requirement of the NLCIL including additional AI based Video Analytics/ event flagging, on mutually agreed basis. For including additional AI Video Analytics in future, the offered rate will be considered for the same or any other similar type of Video Analytics.

18. License for the following Analytics:

S.No.	Video Analytics	Numbers
i.	Vehicle detection and classification	37
ii.	Number plate detection/Recognition	98
iii.	Crowd and Miscellaneous event detection	36
vi.	Personal protective equipment (PPE) detection	193
v.	Fire and smoke detection	62
vi.	Zone intrusion Alert	48
	Total	474

Note:

(a) In future during the entire Contract period, NLCIL may increase up to 50% the above licenses of different camera events as required. The successful bidder shall provide the licenses to NLCIL, at the same offered rates and terms and conditions.

(b) The system must be capable of simultaneously running multiple analytics on a single camera.

19. It shall be the responsibility of the successful bidder to arrange for development and successful implementation of software for the supplied video analytic features.

20. The supply of furniture and interior for ICCC control room and Unit Monitoring Station shall be as per schedule bill of material.

21. NLCIL has considered all equipment for fulfilment of objectives of the system. However, if any items/ equipment/ system/consumables is required as per site condition in addition to the items mentioned in the schedule of bid Document for fulfilment of the aforementioned objectives, the same should be supplied, installed and maintained by the successful bidder without any additional cost to NLCIL. Hence all such items/services including consumable of various equipment installed in this ICCC system which are not included in the bill of materials, but may be required during installation, Testing, commissioning and maintenance during entire contract period, shall be provided by successful bidder without any additional cost to NLCIL.

22. The proposed system should support and have provision for scalability/integration of additional CCTV Cameras as per requirement of NLCIL. The necessary additional hardware & Software required for scalability/integration of this additional requirement will be procured as per mutual consent of buyer and successful bidder at the same quoted rate.

23. The ICCC System shall provide a dedicated portal with Mines wise dashboard, to be accessed by respective Unit monitoring Stations via Mines-wise login credentials for viewing and periodical report generation to be submitted to NLCIL official for ATR against specific events / exceptions under their respective Mines. Report generation, printing, scanning, copying, fax of any documents shall be in the scope of Successful bidders.

24. The ICCC System Dashboard should have provision for providing escalation matrix for automated sending of exceptions to designated authorities as per SOP defined by NLCIL.

25. In case of network issue between any particular Project/ Mines and NLCIL HQ, the ICCC System should be able to sync with the mines unit level storage for retrieval of last 15 days data at any point of time as soon as the connectivity is restored.

26. During the period of the contract, any facility/feature/ software upgradation of any supplied item which are offered by the respective OEM/ Developer will have to be made available to NLCIL without any additional cost, even if the same is not mentioned in the bid document.

27. Wiring/cabling standard: All wiring/cabling/ terminations/ patches must follow EIA/TIA standards wherever applicable. All Cabling should have proper non-perishable identification at the terminals for easy tracing. Proper documentation with diagram should be made for all wiring/cabling/terminations. All indoor wirings/Cablings should be properly secured, duly terminated, easily maintainable and aesthetically sound.

28. Placement/Fittings etc.: All Equipment installed should be properly placed which should be secure, aesthetic, convenient for maintenance, healthy from operational and fault liability point of view and follows standards (Industry and/or recognized authority) wherever applicable. It will include placement of all switches in suitable Racks, other hardware including Power Supplies in suitable racks/enclosures/stands etc. Suitable enclosures, if any needed beyond list of equipment mentioned, as per site requirement will have to be provided by the successful bidder without any additional cost to NLCIL.

29. OFC cable: As the work needs laying of Fibre Optic Cables for connecting the CCTV cameras, the trench cutting is to be done wherever necessary as per site condition and GI pipes are to be used at road or drain channel crossing. Cameras/modems shall be mounted on Poles/Towers in some places as per site requirement.

i. For establishing OFC cable connectivity as per the site conditions, the required HDPE Pipes with accessories, Closure kits, Racks, LIU, patch cords, Earthing items, Clamps, screws including tools and testing instruments, etc., as per site requirement shall be in the scope of Successful bidder.

ii. Laying of Fiber Optic cable: The OFC cable shall be installed inside the required diameter of PLB-HDPE pipes. The cable shall be installed by compressed air blowing/pulling technique. The HDPE pipes shall be suitably coupled with good quality couplers for perfect insulation and free flow of OFC during blowing/pulling. Necessary Fibre Optic cable service loops shall be provided/stored at each splicing point (10 to 20 M or as directed by NLCIL officials). OFC should be neatly coiled without kinks and minimum bending radius to be followed. OFC laying shall be carefully planned to minimize the splicing work. At LIU locations the maximum OFC cores shall be passed through the LIU without cutting them through careful network planning. Only the essentially required core shall be cut and terminated in LIU. This shall be carefully planned and executed as per the instructions of NLCIL executives.

iii. Trenching: Excavation of trenches, up to a depth of 2.0 meters minimum from the surface level. The width of the trench should be minimum 35 cm. The bottom of the trench shall be uniform and sufficient to lay the requisite number of HDPE/GI pipes. The alignment of the trench shall be decided in consultation with NLCIL official in charge of the work shall be in the scope of the successful bidder.

iv. Duct shall be laid in a flat bottom trench free from stones, sharp edged debris. No water should be present in trench, while laying the cable duct. The Contractor shall be responsible for all necessary arrangements to remove or pump out water from trench while carrying out the work, without extra payment. Wherever the soil is hard, if watering is to be done for wetting the soil to make it loose, the same shall be done by the contractor and no extra payment shall be admissible for this. Place the duct in trench as straight as possible.

v. While trenching, the contractor shall not cause damage to any over ground or underground installations belonging to NLCIL. A minimum free clearance of 500mm shall be maintained from any existing underground installations.

vi. The contractor shall provide adequate precautionary measure to prevent caving in of the trenches while excavation, due to soil condition. At such locations, width of the trenches shall be kept sufficiently wide or necessary shuttering / propping shall be provided for the trenches.

vii. It is to be ensured that minimum amount of bushes and shrubs shall be removed to clear the way and to facilitate marking the centerline without any extra

charges. The contractor shall give all consideration to the preservation of the trees with the right of way.

viii. The whole of trench has to be backfilled with excavated material. Adequate dry compaction shall be done before crowning. The compaction shall be done in layers of 50 cm each.

ix. Crowning: When the back filling has been done up to ground level a hump of soil is made to cater for soil settlement. The entire excavated soil shall be used for back filling. The crowing shall confine over the width of the trench only. No surplus soil shall be left outside the trench. The back fill shall be maintained by the contractor against wash out settlement below original level and rotting, until final completion of the work and until reinstated to sufficiently leveled condition as acceptable to NLCIL.

30. Power Supply:

i. Necessary electrical supply will be provided by NLCIL for installation of ICCC system. However, the successful bidder will arrange for any additional power wiring/ distribution, and also for regulation/stabilization of voltage required. All such works must be technically and aesthetically sound and standard based, wherever applicable.

ii. The successful bidder shall ensure that protections provided in the equipment work properly in case of any abnormal electrical condition. NLCIL will make best efforts to ensure a healthy power supply, however in case of any damage to the equipment due to abnormal power supply or any other electrical disturbance, the damage has to be rectified by the successful bidder without any additional cost to NLCIL. The equipment so replaced against the damage shall be of the "same make and model" or "higher specifications" without affecting the performance of the system.

iii. The successful bidder will ensure to provide necessary protection system/module for the entire system from thunder lightning, Surge voltage, rodent damage even if not mentioned in the list of equipment. In addition to the material as provided in the list of equipment, the vendor is free to add additional equipment or protection system to strengthen the protection system at his own cost during installation, warranty and CAMC period.

iv. The successful bidder will ensure to provide necessary protection system like Lightning Arresters, Earthing (The contractor shall strengthen the earthing and to bring it to the desired level i.e. ≤ 1 ohm) and Ethernet Surge Protectors for the entire ICCC system from Lightning, even if not mentioned in the bid document. Hence, any damage caused to the equipment/system/cables due to lightning and/or abnormal power supply/rodent has to be rectified/repared/corrected by the service provider without any extra cost to the NLCIL during entire contract period.

31. Earthing: Lightning Arresters, Chemical Earthing, including Earth Pit Digging have been provided in the list of equipment, wherever felt necessary. However, wherever felt necessary by the successful bidder, additional protections/earthing/arrestors may be provided, without any additional cost to NLCIL.

32. The successful bidder will be fully responsible for safety of its personnel engaged in installation work. They will ensure that they and their personnel abide by the provisions of all relevant acts applicable, relating to the work. They will also ensure that he abides by all the rules and regulations of central and state governments and any local authority while executing the work. NLCIL will have the right to call for any documentation in this regard, instruct the successful bidder and take any action as deemed fit, in case of deficiency. The Successful bidder will be solely responsible for all liabilities in these regards. The successful bidder will indemnify NLCIL from any consequences caused due to their failure in this regard and will be solely responsible to bear them.

33. Successful bidder shall provide all patches and updates of Firmware for active Components during the entire contract period as and when released by OEMs without any additional cost to NLCIL.

34. The successful bidder should not bid / supply any equipment / item that is likely to be declared end-of-sale during the entire contract period. In case of such happening, such devices should be replaced with same or higher specification devices by the successful bidder, without sacrificing the performance of the system free of cost.

35. During contract period, any spare parts to be replaced shall be of same make/model or higher version without degrading the performance of the system.

36. The successful bidder shall make necessary arrangement for lodging any complaints regarding ICCC system. The Firm shall ensure a single point of contact with escalation matrix for all the complaints related to respective Project/Unit/HQ. It shall be the responsibility of the successful bidder to mobilize their technical team and back-end support for restoration of the break down. The successful bidder is required to provide 24 x7 help desk mentioning Mobile number, E-Mail address. The successful bidder also shall provide online complaint portal and Mobile App with user credential to lodging any complaints, feedback/suggestion etc. as per NLCIL requirement. Month wise report of all complaints, restoration, feedback/suggestion, ATR etc. with date and time shall be maintain in database for future reference and a print copy shall be submitted to NLCIL which shall be used for making quarterly payment or any other purpose in future.

37. The successful bidder shall make necessary arrangement for any operational change in Commissioned ICCC system as per requirement of NLCIL without any extra cost.

38. The successful bidder shall not delete any data during contract period and will not delete any data even after expiry of the contract without written approval from NLCIL. All data shall be properly secured from any unauthorized access.

39. Deployment of technical manpower to be provided by Successful bidder:

i. Deployment of technical manpower to be provided by Successful bidder: 02 Nos. at ICCC, NLCIL HQ per shift and 01 no. at each of five Unit Monitoring Station in each shift in a day (08 hours per shift & 3 shift in a day). Total manpower deployment shall be 07 nos. per shift and 21 nos. per day during warranty and CAMC period.

ii. The deployed manpower shall work in shifts to operate and manage the ICCC system, NLCIL HQ Neyveli and Unit Monitoring Station at five NLCIL Mines on 24X7 basis and also have to comply the statutory rules and regulations.

iii. The posting & shift duty of manpower may be changed during entire contract period as per the requirement of NLCIL. The deployed manpower shall report to the NLCIL Official.

iv. The attendance of the deployed manpower shall be recorded as per NLCIL rules and regulations. However, the successful bidder shall provide attendance monitoring system for their deployed manpower, if required. Working shift of deployed manpower shall be as per the NLCIL shift timing. Penalty shall be imposed on absence of any deployed manpower from shift as per the penalty clause.

v. The successful bidder will maintain sufficient spares, tools and accessories required for repair / replacement / relocation / maintenance and configuration of active and passive components of the System by deployed manpower to achieve guaranteed availability during the entire contract period.

vi. In case of the deployed manpower is on leave, it is the responsibility of successful bidder to provide the substitute. Successful bidder will provide name & contact no. of manpower and documents regarding the same need to be submitted.

vii. Arranging accommodation for manpower is the responsibility of the successful bidder at their own cost. However, on request, NLCIL may provide accommodation subject to availability to deployed manpower on chargeable basis as per NLCIL terms and conditions.

viii. Role/Job of manpower: The deployed manpower will maintain the system and monitor all types of alerts on dashboard and they will identify the authenticity of the alerts and report to concerned person for further necessary action as per (Standard Operating Procedure) SOP provided by NLCIL. The deployed manpower will also follow the instructions/orders related to ICCC system given by NLCIL official time to time during the contract.

ix. A log book containing the details of the incidents of fault/problem reported, attended, rectified with date and time should be maintained by deployed manpower and made available to NLCIL. All the entries must be verified and counter signed by the Nodal officer of NLCIL or his authorized representative.

Note: The "21 Nos. of technical manpower to be provided by Successful bidder" as mentioned here is different and additional to the Service Engineer/ technician to be provided by Successful bidder referred at the clause 45 under the head "AFTER SALES SERVICE AND MAINTENANCE".

x. SITC and CAMC Charges shall be inclusive charges for deployment of technical manpower.

40. Patent Rights: The successful bidder shall indemnify all Projects / Units/HQ of NLCIL against all 3rd party claims of software piracy & infringement of intellectual propriety rights. In the event of any claim asserted by a third party of infringement of copyright, patent, trade mark or industrial design rights arising from the use of the Goods and services or any part thereof in India, the successful bidder shall act expeditiously to extinguish such claim. If the successful bidder fails to comply and NLCIL is compelled to pay compensation to a third party resulting from such infringement, successful bidder shall be responsible for the compensation including all expenses, court costs and lawyer fees to NLCIL and as per the company norms further action may be taken against the successful bidder.

41. Training: The Successful bidder will provide onsite minimum two days training to the minimum 10 Personnel of NLCIL and other users for operation/

configuration /maintenance of equipment and software, Servers, switches and other installed items, as per NLCIL requirement. The cost of training has to be borne by the successful bidder.

42. Warranty Period: The system shall be under warranty for a period of three years immediately next day from the date of Commissioning of the system. During the warranty period, the successful bidder shall maintain the system in all respects, including those mentioned in CAMC, at their own cost.

All types of breakdown calls are to be attended & rectified within stipulated time during warranty period. If the successful bidder fails to complete service/rectification within defined time limit, the penalty will be applicable as per given Penalty clause.

43. Retrieval of Data from Storage Devices / Hard Disk: Since it is imperative that no loss of stored CCTV data takes place due to faulty Hard disk etc. In case of any failure of storage devices HDD etc. the successful bidder shall have to make maximum efforts for retrieval of data stored in such storage devices and after retrieval, the data and storage device are to be returned back to NLCIL.

44. Transportation & Insurance:

i. Transportation of all items/equipment/components/system/manpower etc. at respective location (NLCIL HQ and NLCIL Mines) as per the site and geographical conditions and requirement to achieve the objective of the ICCC system during SITC and entire warranty and CAMC period shall be in the scope of successful bidder without any extra cost to the NLCIL.

ii. For all kind of transportation, transit insurance required for supply, Installation, testing, commissioning and Maintenance of the ICCC system as a whole during SITC and entire warranty and CAMC period shall be arranged by the successful bidder and no extra cost shall be paid. Any damage to the material and system supplied through this contract till the handover of the total system shall be the responsibility of the vendor and insurance (if any) required to mitigate the risk shall be borne by the Successful bidder.

45. After Sales Service and Maintenance:

The successful bidder shall also deploy sufficient service engineer/technician wherever required for early rectification of the issues /breakdowns, repositioning, cleaning of various hardware, software, components, CCTV equipment, RF modems and any other accessories etc. to maintain the guaranteed availability of the system during the entire contract period and post them at convenient place in consultation with NLCIL to ensure smooth maintenance of commissioned, ICCC, NLCIL HQ Neyveli, Unit Monitoring Station and CCTV camera surveillance system at NLCIL Mines during warranty period (03 years) and CAMC period (03 years) without any extra cost to the NLCIL. It may be noted that successful bidder shall arrange for the verification of character and antecedents of the deployed Service Personnel by the local police authorities at their own cost, and give an undertaking to respective Mines of NLCIL in this regard, along with relevant documents, if any. The details including Name, Address, Mobile No. and email Address of the Service representative should be intimated by the successful bidder.

Note : The Service engineers / technicians mentioned here are different and additional to the 21 nos. technical manpower to be provided by Successful bidder referred at the clause 39 above under the head "Deployment of technical manpower to be provided by Successful bidder: 07 No. in each shift in a day and 21 Nos. per day".

46. Proper positioning/ orientation of cameras and illumination of different cameras at mines/other sites for effective functioning of AI based Video Analytics at ICCC System of NLCIL HQ shall be done as per NLCIL consultation.

47. Data Handling and Retrieval Responsibility: The successful bidder shall be responsible for the proper handling and retention of all recorded data in the system procured under this tender, including to the data stored in the Surveillance HDD (or Storage device) installed in the Server / NVR / Workstation.

In the event that the recorded data becomes corrupted, inaccessible, or lost due to any means, the successful bidder shall bear full responsibility for retrieving and recovering the data. The successful bidder shall take immediate action to rectify any issues that may lead to data loss or corruption to minimize the impact on the system's functionality. The data retrieval process shall be carried out at no additional cost to the NLCIL.

Furthermore, the successful bidder shall implement suitable backup and recovery mechanisms to safeguard the recorded data from potential data loss scenarios. The backup strategy should be robust and should not affect the continuous monitoring and recording capabilities of the offered system.

The NLCIL shall not be held liable for any data loss, corruption, or damages incurred by the successful bidder due to mishandling, negligence, or any other reasons related to the recorded data.

By submitting a bid in response to this tender, the successful bidder acknowledges and agrees to take full responsibility for the proper handling, security, and retrieval of recorded data as outlined in this clause.

This clause forms an integral part of the tender document and shall be binding upon the successful bidder upon acceptance of their bid.

48. Proper fencing to be provided at the workplace to avoid un-authorized entry. Sand buckets / fire extinguisher to be provided in the workplace. All the rules, regulations and by laws under mines act to be complied. Traffic rule to be enforced strictly. In the open cast mine pedestrian should utilize road meant for them.

49. All UPS should be supplied with required number of batteries. From UPS cables have to be laid up to the server rack, network rack and at desired locations as per site requirements. Suitable power switches and board will be in the scope of the firm. Separate Box for UPS is to be provided wherever required.

Irrespective of the testing carried out at the works, all the functional tests shall also be carried out at site after erection and commissioning of the system.

50. Wages / CMPF / EPF Clause: The successful bidder shall give undertaking that EPF/CMPF, wages, labour license and Insurance coverage are maintained by successful bidder for their manpower deputed for work at NLC India limited.

Note: The contractor shall ensure that all workmen deployed under the contract are paid wages strictly on a monthly basis as per applicable labour laws. Payment of charges to the contractor by NLCIL on a quarterly basis shall not, under any circumstances, be construed as permission to delay wage disbursement to workmen. The contractor shall be solely responsible for timely payment of wages and all statutory dues. The contractor shall indemnify and keep NLCIL fully indemnified against any claims, demands, liabilities, or proceedings arising out of non-payment or delayed payment of wages by the contractor. The contractor shall submit the undertaking in prescribed format for all quarterly payments during SITC, warranty period and CAMC period as given in Annexure-B.

51. Site visit: The bidders, at the successful Bidder's own responsibility, cost and risk, is encouraged to visit and examine the Sites of Works and its surroundings/ soil conditions details connected to the work, if / as available and obtain all information that may be necessary for preparing the Bid and entering into a contract for execution of the Works. It shall be deemed that the successful has visited the site/Mines and got fully acquainted with the working conditions and other prevalent conditions and fluctuations there to whether he actually visits the site/ Mines or not and has taken all the factors into account while quoting his rates.

It shall be deemed that the successful bidder has got himself acquainted with the mining conditions and geological details available for the proposed work site. The successful bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid. The costs of visiting the site shall be borne by the successful bidder.

The successful bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the successful bidder will release and indemnify the buyer and consignee against all liabilities arising out of such visit including death or injury, loss or damage to the property, and any other loss, damage, costs and expenses incurred as a result of such visit.

The successful bidder shall not be entitled to hold any claim, against buyer for non-compliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the successful bidder to obtain all necessary information with regard to the site, surrounding, working conditions, weather, etc. on its own before submission of the bid.

G. PAYMENT TERMS:

1. 70% of SITC value on successful Supply, installation, testing and commissioning (SITC) of system. No part payment shall be made.

2. 30% of SITC value shall be paid during warranty period on quarterly basis on successful completion of warranty obligation and after adjusting penalty, if any. The first quarter payment shall be released after successful completion of mandatory training to the NLCIL officials.

3. CAMC charges on quarterly basis during CAMC period of 03 years after completion of 3 years of warranty on successful completion of CAMC obligation and after adjusting penalty, if any.

4. No separate charges for Technical Manpower support will be paid by NLCIL. However, the contractor has to furnish the attendance per shift during entire contract period while claiming SITC and CAMC charges.

5. The contractor shall ensure that all workmen deployed under the contract are paid wages strictly on a monthly basis as per applicable labour laws. Payment of charges to the contractor by NLCIL on a quarterly basis shall not, under any circumstances, be construed as permission to delay wage disbursement to workmen. The contractor shall be solely responsible for timely payment of wages and all statutory dues. The contractor shall indemnify and keep NLCIL fully indemnified against any claims, demands, liabilities, or proceedings arising out of non-payment or delayed payment of wages by the contractor. The contractor shall submit the undertaking in prescribed format for all quarterly payments during SITC, warranty period and CAMC period as given in Annexure-B.
6. 70% of SITC value shall be released after successful commissioning and acceptance of commissioned equipment at site at NLCIL HQ & respective Mines of NLCIL and subsequent submission of invoices along with jointly certified document indicated successful commissioning by the representative of NLCIL HQ Neyveli & respective NLCIL Mines and representative of the successful bidder. For successful commissioning of equipment, the supplier shall depute competent person at site and provide technical assistance required for commissioning and initial testing of the equipment.
7. Payment shall be released by NLCIL within 30 days of submitting the relevant invoices and documents.

H. DECLARATION / UNDERTAKING ON SUCCESSFUL BIDDER'S LETTER HEAD:

1. Malicious Code Certificate: The successful bidder should upload following certificate in the bid that we M/s.
 - i. This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures
 - a. Inhibit the desires and designed function of the equipment.
 - b. Cause physical damage to the user or equipment during the exploitation.
 - c. Tap information resident or transient in the equipment/network.
 - ii. The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.
2. Technical specifications listed in the bid document are the minimum required specifications. Items of higher specifications will also be acceptable successful bidder have the option to propose a product with higher specifications for evaluation. However, it's crucial that any such higher specification product fully meets the criteria set out in this tender document and is both compatible with and meets the requirements of NLCIL. Any suggested deviations from the specified product must be thoroughly explained, along with reasons for its suitability and alignment with the objectives of the tendered solution. Non-compliance with these requirements could result in the rejection of the bid. Furthermore, if the documents submitted by the successful bidder create any ambiguity that is not adequately clarified by the successful bidder, the bid shall be promptly rejected. Also, the decision to accept any offered higher specification product falls under the authority of NLCIL. Failure to declare Make and Model of materials offered/quoted and/or non- submission of required details/ technical document/OEM Datasheet may lead to rejection of the bid.
3. The successful bidder shall arrange all the subscription/Licenses required for all software (which are covered or not covered in BOQ) for smooth working of the offered ICCC solution as applicable.
4. Successful bidder shall submit monthly System performing reports approved by respective nodal officers of ICCC, NLCIL HQ Neyveli and five Unit Monitoring Stations of respective NLCIL Mines. Monthly reports shall have date & time wise details of System availability, any breakdown and rectification, preventive maintenance & service, details of replaced items, deployed manpower attendance etc. and any other details required by NLCIL. Only on receipt of the duly approved monthly System performing reports, the quarterly payment for warranty and CAMC period shall be released after adjusting the penalty, if any.

I. TERMS & CONDITIONS OF THE WARRANTY PERIOD:

1. The 03 years of warranty period from the date immediately after the Commissioning of entire ICCC System shall be covered by the Bank Guarantee equivalent of 10% of the LOA value. The same shall stand forfeited in case of cancellation of the contract for any breach of contract or for any deficiency in the performance noticed during the currency of the contract.
2. The Contractor shall warrant that the Goods supplied under the contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The contractor further warrants that all Goods supplied shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Contractor, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
3. This warranty for the supplied Goods which have been accepted as a part of the commissioning certificate / acceptance certification, shall remain valid for three (03) Years of warranty period. The contractor shall, in addition, comply with the performance guarantees specified under the contract. If, for reasons attributable to the contractor, these guarantees are not attained in whole or in part, the contractor shall make such changes, modifications, and /or addition to the goods or any part specified in the contract at its own cost and expense and to carry out further performance tests at site, if NLCIL allows.
4. NLCIL shall promptly notify the contractor in writing of any claims arising under this warranty.
5. NLCIL shall notify Contractor of any errors and malfunctions, which occur and noticed when equipment is in use, by phone/e-mail/special messenger or Mobile App/online web portal provided by successful bidder directly or through his Service Engineer(s).
6. If the Successful bidder, having been notified, fails to rectify the defect(s) within the time specified, NLCIL may proceed to take such rectification action as may be necessary, at the contractor's risk and expense as specified and without prejudice to any other rights which the purchaser may have against the contractor under the contract.
7. Successful bidder shall submit monthly System performing reports approved by respective NLCIL nodal officers of ICCC, NLCIL HQ Neyveli and five Unit Monitoring Stations of respective NLCIL Mines. Monthly reports shall have date & time wise details of System availability, any breakdown and rectification, preventive maintenance & service, details of replaced items, deployed manpower attendance etc. and any other details required by NLCIL.
8. Maintenance Service during warranty period:
 - i. Free maintenance services for the supplied Goods and other related accessories shall be provided by the contractor during the period of warranty.
 - ii. Contractor shall provide contact online portal/Mobile App/Mobile No./e-mail/postal address etc. to handle the complaints.
 - iii. Contractor shall provide services of qualified personnel in resolving defects arising in the Goods supplied during the warranty period.
 - iv. All Travel and other expenses for the persons/service engineer/technician deployed by the successful bidder shall be in the successful bidder's scope. The successful bidder shall arrange their own arrangement for transportation of their manpower for Supply, Installation, testing, commissioning and maintenance etc.
 - v. The successful bidder shall also undertake to train the persons deployed by NLCIL for day-to- day operation, if required at no extra cost.
 - vi. Successful Bidder will submit name & contact details including Mobile Numbers of the Service Engineers posted in the Mines. Service Engineers/technicians should carry authorization / Identity Card issued from successful bidder.
9. Penalty Clause for Warranty Period:
 - i. Fault / Breakdown Attending and Rectification Time: If any of the components/equipment in the commissioned system in entire ICCC system at NLCIL HQ, Neyveli, Unit Monitoring Stations and CCTV Surveillance system at NLCIL Mines by successful bidder found defective or not working for any reason during the warranty period, the successful bidder must attend and rectify the complaint to ensure to achieve minimum uptime availability of 90% in each month.
 - ii. Penalties during warranty period: If the monthly availability of ICCC system falls below 90% in any month, the warranty period shall be extended suitably by the period of one month for each of such occurrence and shall be adjusted in corresponding quarter with same terms and conditions.
 - iii. Month wise availability (Uptime) of the System will be evaluated during the entire contract in percentage as follows –
[(Total Hours in the month) – (Total Downtime in hours during the month) X 100] / [Total No. of Hours in the month]
 - iv. Exception: The service provider will not be penalized if they make alternate arrangements by providing a spare system/component/equipment of the same or higher capacity until the repairs are completed.
 - v. Exclusions: The successful bidder shall not be liable for penalties if the damage/ breakdown is caused by Force Majeure conditions such as natural disasters, acts of war, government actions (Such as changes in laws, regulations, embargoes, trade restrictions, expropriations, and government orders) , Vandalism /

Theft, Pandemics and epidemics, Power outages, Fuel or energy shortages, Transportation disruptions, Acts of God, Acts of Nature, etc. or any circumstances beyond their reasonable control. However, in such cases, the successful bidder must provide a detailed report justifying the cause of the damage and the inability to meet the specified timelines for its restoration. Further, in such cases the successful bidder shall have to communicate in writing to NLCIL the nature of the Force Majeure conditions well before the expiry of stipulated restoration time as per the contract.

In case of failure under Force Majeure conditions the successful bidder shall undertake all efforts to restore all system back to operational status at the earliest. However, defects that take place under Force Majeure conditions will be repaired / replaced by the successful bidder on chargeable basis.

To facilitate early award of repair works on chargeable basis, the successful bidder shall submit work estimate with proper price justifications like previously awarded work order / OEM price certificate, etc.

vi. The contractor will be subject to penalties, as deemed necessary by the Mines Contract Department and the NLCIL management, in the event of any unexpected or inadequate performance (e.g. Poor overall contractor performance, Non-supply of required spares, Failure to rectify reported faults promptly, Delays in commissioning or operational readiness, Non-compliance with technical specifications or service standards, Repeated system breakdowns or excessive downtime, Non-adherence to reporting, maintenance, or documentation requirements, Any other breach of contractual obligations or actions that adversely affect system performance or NLCIL operations etc.). These penalties may include actions such as forfeiting the complete/partial Performance Bank Guarantee (PBG)/ Security or any other measures deemed appropriate by the NLCIL management.

J. TERMS & CONDITIONS OF THE CAMC PERIOD:

1. Bank Guarantee during CAMC- Entire period of CAMC (03 years from the date of expiry of warranty period) shall be covered by a Bank Guarantee equivalent of 10% of the LOA value. The same shall stand forfeited in case of cancellation of the contract for any breach of contract or for any deficiency in the performance noticed during the currency of the contract.

2. CAMC Charges- Comprehensive Annual maintenance charges for the ICCC system shall be for 03 years.

i. The CAMC charges quoted by the successful bidder shall be firm during the contract period.

ii. The Goods & Service Tax shall be paid at the prevailing rates on production of documentary proof.

iii. All other taxes & levies as may be applicable due to or under the law from time to time shall be inclusive of CAMC charges.

3. The manpower deployed by firm at the ICCC HQ Neyveli and at the respective Unit Monitoring Station of NLCIL Mines will submit the Month-wise details (with date and time) of breakdown/failure and restoration report, attendance report to NLCIL HQ, Neyveli approved by respective NLCIL nodal officer every month.

4. Payment of CAMC Charges - After the successful commissioning of the system and expiry of Warranty period, the CAMC charges will be paid quarterly after the end of each quarter. The contractor shall submit single invoice at NLCIL HQ Neyveli for entire ICCC system at the end of each three-month period (quarter) along with monthly System performing reports approved by respective NLCIL nodal officers of ICCC, NLCIL HQ Neyveli and five Unit Monitoring Stations of respective NLCIL Mines. Monthly reports shall have date & time wise details of System availability, any breakdown and rectification, preventive maintenance & service, details of replaced items, deployed manpower attendance etc. and any other details required by NLCIL.

5. The NLCIL reserve the right to recover/ enforce recovery of any over-payments detected after payment as result of post-payment audit or technical examination or any other means, notwithstanding the fact that amount of disputed claim, if any, of the contractor exceeds the amount of such overpayment and irrespective of the fact whether such disputed claims of the contractor are the subject matter of arbitration or not.

6. The amount of such over-payment may be recovered from the subsequent bills under the contract, failing that from contractor's claim under any other contract with the NLCIL or from the contractor's security deposit or the contractor shall pay the amount of over -payment on demand.

7. Amount payable/ repayable for any subsequent change in the Service -tax will be made to/ from the Contractor after departmental verification of such changes of tax law issued by statutory authority.

8. All repairs/replacement/servicing/fixing of the entire commissioned system shall be carried out only by the contractor / successful bidder and company NLCIL shall not permit or allow any other party other than the authorized contractor / successful bidder to handle or deal with the equipment.

9. Repair/replacement/servicing shall mean system testing, replacement, repair and maintenance of entire/total equipment in ICCC system including any consumables for proper functioning of ICCC system without any extra cost to the NLCIL. The CAMC charges also include cabling works, the expenses for preventive maintenance and routine check-up and attending to breakdown calls as and when required. The firm shall supply and install spare system/component/ equipment of the same or higher capacity in case of any required replacement with the approval of NLCIL.

10. The contract is comprehensive and includes replacement, fitment, maintenance and repair of all type of spare parts and consumables for replacement of defective parts and repair of the commissioned system. No extra charges will be payable by NLCIL on account of these spares and consumables.

11. Spare at site: The CAMC holder will keep sufficient stock of necessary spares with their service engineer for smooth functioning of the ICCC system. In case of major repairs (during warranty or CAMC) necessitating removal of the equipment to the contractor's service Centre, the system or its parts shall be reinstalled at the owner premises after repairing the set-in working condition. Provision of installation of spares (same or higher specifications) breakdown/damaged/under repaired items will be ensured at all times.

12. Penalty Clause for CAMC Period:

i. Timely Servicing / rectification of defects of the system shall be ensured for achieving minimum uptime availability of 90% in each month during CAMC period. If the availability of ICCC system falls below 90% during CAMC period in any month, the CAMC period shall be extended suitably by the period of one month for each of such occurrence and shall adjusted in the corresponding quarter with same terms and conditions.

ii. Month wise availability (Uptime) of the System will be evaluated during the entire contract period in percentage as follows –

$$\frac{[(\text{Total Hours in the month}) - (\text{Total Downtime in hours during the Month}) \times 100]}{(\text{Total Hours in the month})}$$

iii. Exception: The service provider will not be penalized if they make alternate arrangements by providing a spare system/component/equipment of the same or higher capacity until the repairs are completed.

iv. Exclusions: The successful bidder shall not be liable for penalties if the damage/ breakdown is caused by Force Majeure conditions such as natural disasters, acts of war, government actions (Such as changes in laws, regulations, embargoes, trade restrictions, expropriations, and government orders) , Vandalism / Theft, Pandemics and epidemics, Power outages, Fuel or energy shortages, Transportation disruptions, Acts of God, Acts of Nature, etc. or any circumstances beyond their reasonable control. However, in such cases, the successful bidder must provide a detailed report justifying the cause of the damage and the inability to meet the specified timelines for its restoration. Further, in such cases the successful bidder shall have to communicate in writing to NLCIL the nature of the Force Majeure conditions well before the expiry of stipulated restoration time as per the contract.

In case of failure under Force Majeure conditions the successful bidder shall undertake all efforts to restore all system back to operational status at the earliest.

However, defects that take place under Force Majeure conditions will be repaired / replaced by the successful bidder on chargeable basis.

To facilitate early award of repair works on chargeable basis, the successful bidder shall submit work estimate with proper price justifications like previously awarded work order / OEM price certificate, etc.

v. The contractor will be subject to penalties, as deemed necessary by the Mines Contract Department and the NLCIL management, in the event of any unexpected or inadequate performance (e.g. Poor overall contractor performance, Non-supply of required spares, Failure to rectify reported faults promptly, Delays in commissioning or operational readiness, Non-compliance with technical specifications or service standards, Repeated system breakdowns or excessive downtime, Non-adherence to reporting, maintenance, or documentation requirements, Any other breach of contractual obligations or actions that adversely affect system performance or NLCIL operations etc.). These penalties may include actions such as forfeiting the complete/partial Performance Bank Guarantee (PBG)/ Security or any other measures deemed appropriate by the NLCIL management.

vi. The Successful bidder shall take necessary insurance coverage for installed components and the man power deployed during the CAMC period.

K. PENALTY CLAUSE FOR SITC PERIOD:

1. Any contractor defaults during the SITC stage—such as delays or non-performance, any other breach of contractual obligations or actions that adversely affect

system performance or NLCIL operations, invocation of performance security, termination, and risk-and-cost actions—shall continue to remain applicable as per the Time Schedule and Price Reduction Clause provided in the General Conditions.

L. PENALTY CLAUSE FOR MANPOWER:

1. If deployed technical manpower is absent without suitable substitute, penalty shall be imposed at the rate of double of manpower charges per day (applicable turnkey wages notified by NLCIL from time to time) for total period of absence. On repeated occurrence of such absence of deployed manpower during contract period, applicable penal action shall be taken as per General Conditions.

M. PLANNED DOWNTIME:

It means any time when the equipment's is unavailable because of maintenance, configuration/reconfiguration or other services with the prior approval of in charge official of NLCIL or his authorized representative. Such services may include but are not limited to restarting applications, rebooting servers, applying patches or fixes, reconfiguring storage allocation, reloading data and making DNS & firewall changes to close security holes. Planned downtime will not be added to total downtime hours for calculation of availability.

Note:

i. In case of repeated and unresolved failures / breakdowns within a specific period, the NLCIL reserves the right to terminate the contract and seek compensation for any losses incurred due to the service disruptions.

ii. The penalty clause shall not absolve the successful bidder from their responsibility to perform regular maintenance and preventive measures to minimize the occurrence of breakdowns.

N. TIMELY RECTIFICATION OF DEFECTS:

1. In case of breakdown of any hardware/software/components in the ICCC system, the successful bidder has to attend the breakdown and ensure the restoration of the breakdown equipment within the stipulated time to ensure the Guaranteed Availability of the system.

2. However, if the successful bidder fails to restore the said equipment within 05 days from the time of reporting, NLCIL shall have the right to get the equipment restored departmentally or through any other agency. The equipment so restored shall continue to be under CAMC of the existing service provider till the end of the contract period. In such a case of restoration of the equipment departmentally or through any other agency, the cost of such restoration along with 10% handling charges shall be recovered from the running bills, performance security or any other dues of the service provider. If such amount is not directly recoverable from any dues of the service provider, then the service provider shall reimburse NLCIL for the due amount by any means within 30 days of such claims made by NLCIL.

3. Part which has been replaced shall be cleaned of any storage, if any or data before being taken out from the NLCIL premise while keeping the backup after consultation with representative from NLCIL (Officer in charge). No data/storage/device having data should be taken out without prior written permission from the Officer In-charge.

4. During CAMC period, if any equipment is declared end of sale/ end of support/ end of life by the OEM, or the equipment is not available for any other reason, the successful bidder shall be allowed to replace the said equipment with an equipment of equal/higher specifications, and configure it to work in the network seamlessly. The said equipment shall be under CAMC by the service provider till the end of contract period at the same rates, terms, and conditions as the previous equipment.

5. The day-to-day record for the breakdown time will be kept at NLCIL HQ as well as NLCIL Mines with representatives of NLCIL for the assessing performance as well as for deducting penalty, if any, during quarterly payment of warranty/CAMC charges of the ICCC system.

6. All the equipment supplied under this contract should bear manufacturer's name, equipment name, model no, part no. and serial no. different relevant rating and working ranges engraved in a non-corrosive material plate attached permanently to the equipment or engraved on the equipment itself. Wherever applicable, in critical equipment the brief operating instructions and drawings should be engraved /supplied along with equipment.

7. The equipment offered must be highly reliable and field proven. The equipment supplied should operate without any deviation in quality or degradation of system performance and all the parameters mentioned should be guaranteed over as mentioned in the required technical specifications in the Buyer Specification Document.

O. PRE-COMMISSIONING INSPECTION AND TEST (PART OF INSTALLATION PROGRAM):

1. On installation, the System and its Components will be jointly (in presence of both the successful bidder and NLCIL representatives) tested as follows:

i. All equipment and installations will be individually inspected physically.

ii. Individual active equipment will be tested with Power. Passive items also will be tested wherever feasible.

iii. Different Sub-Systems will be tested wherever feasible.

iv. Then, the system will be tested in integrated manner.

v. The parameters of testing will be jointly decided keeping in view the technical specifications, scope of work and Special Terms & Conditions of the bid document.

vi. For testing the video analytic features of the system, NLCIL shall ensure that there is proper connectivity between the recording/ storage devices (installed in the Project/ Mines) to NLCIL HQ. If connectivity has been established for the recording/ storage device(s) of a particular Mines, then the testing shall be undertaken with the camera feeds of that particular Mines.

vii. All the video analytic features shall be tested during inspection. During inspection/testing the all analytics should work on the cameras.

P. TRIAL RUN, SYSTEM ACCEPTANCE & COMMISSIONING:

1. On acceptance of testing of the system, the system will be put under trial run. Trial run of the system will be for a minimum period of seven (07) days or 168 hours out of which at least seventy-two (72) hours shall be continuous operation on full load or any other duration as may be agreed to, between NLCIL and the successful bidder.

2. The trial operation shall be considered successful, provided that each item of the equipment can operate continuously at the specified operating characteristics, for the period of trial operation.

3. The successful bidder should be able to continuously demonstrate the video analytics as mentioned under clause "Pre-Commissioning Inspection and Test" at the desired accuracy.

4. For the period of trial operation, the time of operation with any load shall be counted. Minor interruptions not exceeding four (4) hours at a time, caused during the continuous operation shall not affect the total duration of trial operation. However, if in the opinion of the NLCIL, the interruption is long, the trial operation shall be prolonged for the period of interruption.

5. On successful trial run and acceptance of the same by NLCIL, the system will be taken as commissioned and the NLCIL will issue an Installation and Commissioning Certificate for the system installed at NLCIL HQ and NLCIL Mines.

6. Warranty of the system will be considered immediately after the next date from the date of Commissioning of ICCC System.

7. During the period between the date of physical installation of equipment and commissioning of the system, the system will be maintained in all respects, including those detailed in the CAMC, by the successful bidder at their own cost.

8. The successful bidder shall have to provide all desired analytics as detailed in Scope of Work with an accuracy of more than 95% during trial period and that needs to be consistent before commissioning of the system.

9. Acceptance of the System by NLCIL will not absolve the Successful bidder from all of his liabilities. In addition to whatever has been stated in Bid document, the Successful bidder will be liable for any deficiency in the System traceable to be due to deficiency on the part of the Successful bidder in Supply/Execution or

any other aspect, during the warranty and CAMC Period.

Q. HANDOVER OF DOCUMENTATION:

1. On commissioning of the system, the successful bidder will hand-over the following documents, in hard copies (02 Sets) and soft copy (in .pdf or any other acceptable format), to NLCIL.
 - i. Detailed schematic Network diagram of the complete installation.
 - ii. Escalation matrix for service support.
 - iii. Detailed diagram of all sub-systems of the Network.
 - iv. Detailed Cable/Wire Network as installed.
 - v. All configuration details including different related lists.
 - vi. Any license/permission or related documents.
 - vii. Test results.
 - viii. Any operation and/or maintenance procedures etc.
 - ix. List of Equipment supplied/installed and other items used (e.g. Wires/Cables), Software, Portable Equipment and Spares. The list must include Make, Model, Brand, Version, Sl. No. etc., as applicable.
 - x. Relevant Manuals, CDs etc.
 - xi. Any other relevant document/Information as required as per the Bid document, or, as may be required for operation/maintenance of the system or, otherwise, relating to individual Item/the System.

Note : (1) All the Documents should bear the reference Bid number and Supply Order/ Contract Number of NLCIL have a Heading, and signed with seal by the authorized representative of the Successful bidder. However, any Original Document like License/permissions may be submitted with forwarding letter only from the Successful bidder. All the documents to be submitted to NLCIL within 30 days of Commissioning of the System.

2. NLCIL will have the right to call for any further documents/clarification from the Successful bidder on Products supplied at any stage. The Successful bidder has to submit such documents within required time of receipt of such communication.

R. INSURANCE CONDITIONS:

1. If the period of work is up to one year, the insurance coverage should be for a period of one year or the whole period of contract, whichever is earlier.
2. If the period of work is more than one year, it is the responsibility of the Contractor to keep the Insurance Policy current and valid by making the payment of premium.
3. The Insurance policy should be attached along with the requisition for the temporary pass itself. There should not be any lapse of even a single day at the time of commencement of contract.

S. MAKE & MODEL ALONG WITH TECHNICAL DOCUMENT/OEM DATASHEET FOR ALL ITEMS TO SUPPLIED IN THIS CONTRACT SHALL BE SUBMITTED IN GIVEN FORMAT BY THE SUCCESSFUL BIDDER.

- i. The successful bidder shall submit manufacturer authorization form (MAF) and all essential regulatory certifications as mandatory for each material to be supplied under this Contract.
- ii. Failure to declare MAKE and MODEL of materials quoted and/or non-submission of technical document/OEM Datasheet may lead to rejection of the bid. Successful bidder should not offer Multiple make and Multiple models for the same item as the same may lead to rejection of the bid.
- iii. In order to participate in the bidding process, it is imperative for the successful bidder to provide a precise identification of the MAKE and MODEL for the items listed in this contract.

For instance, when bidding for an air conditioner, the successful bidder must specify a brand such as Voltas or Samsung or LG or Diakin and so on. Similarly, when bidding for furniture, the brands should be clearly mentioned, like Godrej or Cello or Nilkamal, etc.

The use of vague terms like "Reputed" or "Branded," or any other non-specific descriptions, will not be accepted as a valid MAKE specification.

Furthermore, it is essential that successful bidder do not propose multiple brands and models for the same item, as doing so may result/lead in the rejection of their bid.

1. Successful bidder has to submit the self-attested copy of Technical Parameter Sheet (TPS) with required details during submission of documents (Refer Annexure-I).

2. The successful bidder has to quote for SITC and CAMC charges for ICCS system spelt out in Price Breakup Format (Annexure-II).

3. Documents to be submitted with the supply:

- i. Details of person to be contacted in case of after sales requirement, during installation & commissioning and warranty period. (ii) Technical literature (if any) of the offered supplied items may be submitted.

(Note: In case of any ambiguity / conflict with the GeM standard Terms & Conditions, details mentioned in this document shall supersede.)

T. Security Deposit/Bank Guarantee:

1) Security Deposit shall be applicable as per the terms and conditions given in the General Conditions.

2) (i) Validity of the Bank Guaranty (BG) (10% of the LOA value) for warranty shall be kept valid from the commencement of the Warranty till the end of the warranty period.

(ii) Validity of the Bank Guaranty (BG) (10% of the LOA value) for CAMC shall be kept valid from the commencement of the CAMC till the end of the contract period.

UNDERTAKING

We hereby certify that EPF, wages, labour license and Insurance coverage are maintained by our Company for our employees deputed for work at NLC India limited.

Note:

The following General Conditions are not applicable for this tender as the work is maintenance contract and the contract shall not be available in CLMS portal as there is no Schedule-II provision.

A. General: Clause 3.0,4.0,5.5,6.4,6.5

B. Price Clause: 1.1.1, 1.1.4, 1.2, 1.3,

D. Labour: Clause 1.1 to 1.11,

In clause 3.0-Engaging supervisor 3.1 to 3.7

G. safety: Clause 1.1 to 1.7

H. Payment terms: clause 1.5

In clause 3.0-Procedure for release of final bill

clause 3.2 (2 to 8)

J. Other Conditions: clause 2.0: Penalisation for Non- Payment of Wages

K. Details of tender schedule: Clause 1.1,1.3,1.4 & 3.0, 4.0, 5.0, 6.0, 7.0 to 11.

In clause 13 under taking -I the clauses 2 to 8

2.0 Engaging of PAPs:

As this is a special type of work, Specialized Skilled persons are to be engaged by the contractor. Hence engagement of 50% of the contract workmen from the land displaced persons is not applicable for this work. (Clause 1.8 D – Labour of GENERAL CONDITIONS of contract is not applicable for this work).

3.0 Supervisor

The work will be supervised departmentally. Hence supervisory Clause 3.0 of D-Labour is not applicable for this tender.

4.0 CLMS Compliance:

As schedule II provision is not applicable, exempted from CLMS requirement as mentioned in clause 1.10 of D-labour of general conditions of contract.