



**GUJARAT INDUSTRIES POWER COMPANY LIMITED's**

**Request For Proposal (RFP)**

**For**

**Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines**

**E- Tender No: GIPCL/SLPP/RFID/26-27/01**

**From:**

**Gujarat Industries Power Company Limited (GIPCL)**

**P.O. Ranoli – 391 350.**

**District: Vadodara, Gujarat.**

**E-mail: [beshah@gipcl.com](mailto:beshah@gipcl.com); [krmishra@gipcl.com](mailto:krmishra@gipcl.com)**



## TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>SECTION A - SCHEDULE TENDER NOTICE .....</b>                           | <b>6</b>  |
| <b>SECTION B - DEFINITIONS.....</b>                                       | <b>9</b>  |
| <b>SECTION C - INVITATION FOR BIDS &amp; INSTRUCTIONS TO BIDDERS.....</b> | <b>14</b> |
| <b>1. Invitation for bids .....</b>                                       | <b>15</b> |
| <b>2. Guidelines / Preparations of Bids .....</b>                         | <b>17</b> |
| <b>3. Instructions To Bidders for Online Tendering.....</b>               | <b>18</b> |
| <b>4. Submission of Bids .....</b>  | <b>19</b> |
| <b>SECTION D – GENERAL TERMS &amp; CONDITIONS .....</b>                   | <b>20</b> |
| <b>5. Bid Price .....</b>   | <b>22</b> |
| <b>6. Period of Validity of Bids .....</b>                                | <b>22</b> |
| <b>7. Format and Signing of Bid.....</b>                                  | <b>22</b> |
| <b>8. Sealing and Marking of Bids.....</b>                                | <b>23</b> |
| <b>9. Modification and Withdrawal of Bids.....</b>                        | <b>24</b> |
| <b>10. Deadline for Submission of Bids .....</b>                          | <b>24</b> |
| <b>11. Late submission of physical bid .....</b>                          | <b>24</b> |
| <b>12. Opening of Bids.....</b>   | <b>24</b> |
| <b>13. Preliminary Examination .....</b>                                  | <b>25</b> |
| <b>14. Contract Period .....</b>  | <b>25</b> |
| <b>15. Project Management.....</b>  | <b>25</b> |
| <b>16. Work Order issuance .....</b>                                      | <b>26</b> |
| <b>17. Additional Work .....</b>  | <b>26</b> |
| <b>18. Modification of Scope of Work.....</b>                             | <b>26</b> |
| <b>19. Suspension .....</b>   | <b>26</b> |
| <b>20. Termination of Contract .....</b>                                  | <b>26</b> |
| <b>21. Rights to Data.....</b>  | <b>28</b> |
| <b>22. Assignment .....</b>   | <b>28</b> |
| <b>23. Indemnification .....</b>  | <b>28</b> |
| <b>24. Public Holidays .....</b>  | <b>28</b> |
| <b>25. Entire Contract .....</b>  | <b>28</b> |
| <b>26. Governing Law, Jurisdiction and Arbitration .....</b>              | <b>28</b> |
| <b>27. Force Majeure.....</b>   | <b>30</b> |
| <b>28. Inspection.....</b>  | <b>30</b> |



|   |           |
|---|-----------|
| 29. Fraud and Corruption.....   | 31        |
| 30. Negotiation.....  | 31        |
| 31. Award of Contract .....   | 31        |
| 32. Contact Details .....   | 32        |
| 33. Intellectual Property Rights and Rights to Integrated Application System .....                            | 32        |
| 34. Interpretation of Clause .....  | 33        |
| 35. Employee’s Compensation Insurance .....   | 33        |
| 36. Statutory Requirements .....  | 33        |
| 37. Payment of Wages.....   | 37        |
| 38. Accident To Workmen .....   | 37        |
| 39. Benefit payable in case of Accident Occurring outside premises OR beyond the course of<br>Employment..... | 37        |
| 40. Safety Aspect.....  | 37        |
| 41. Rejection of Work.....  | 37        |
| 42. Other Terms and Conditions .....  | 38        |
| 43. Removal of all offensive matter immediately and clean-up .....  | 38        |
| 46. Insurance .....   | 39        |
| 47. Safety Norms to be Observed.....  | 41        |
| 48. Third Party Inspection .....  | 41        |
| 49. Training .....  | 41        |
| 50. Confidential Policy.....  | 42        |
| 51. Limitation of Liability .....   | 43        |
| 52. Data Security .....   | 43        |
| 53. Assignment and Subletting of the Contract.....  | 43        |
| 54. Deductions From Contract Price.....   | 44        |
| 55. Failure & Termination .....   | 44        |
| 56. Night/Sunday/Holiday Shift .....  | 44        |
| 57. Contractor’s Supervision .....  | 44        |
| <b>SECTION E – COMMERCIAL TERMS AND CONDITIONS .....</b>  | <b>45</b> |
| 58. Security Deposit (SD).....  | 45        |
| 60. Liquidated damages.....   | 46        |
| <b>SECTION F – WARRANTY AND CAMC.....</b>   | <b>48</b> |
| 61. Warranty Period .....   | 48        |
| 62. Comprehensive Annual Maintenance Contract (CAMC) .....  | 48        |



|  |            |
|--|------------|
| <b>SECTION G – PAYMENT TERMS &amp; SLA.....</b>  | <b>49</b>  |
| <b>63. Payment Terms, Schedule of Payment.....</b>   | <b>49</b>  |
| <b>64. Service Level Agreement.....</b>  | <b>51</b>  |
| <b>SECTION H – SCOPE OF WORK.....</b>  | <b>55</b>  |
| <b>SECTION I – TECHNICAL SPECIFICATIONS OF PROPOSED HARDWARE AND SOFTWARE.....</b>   | <b>81</b>  |
| <b>SECTION J: APPROVED MAKE.....</b>   | <b>109</b> |
| <b>SECTION K – PRE-QUALIFICATION CRITERIA.....</b>   | <b>111</b> |
| <b>SECTION L – ESTIMATED BILL OF MATERIAL .....</b>  | <b>117</b> |
| <b>SECTION M – TECHNICAL QUALIFICATION CRITERIA .....</b>  | <b>121</b> |
| <b>SECTION N – EVALUATION PROCESS OF TECHNICAL BID .....</b>   | <b>126</b> |
| <b>SECTION O – QUALIFICATION CRITERIA OF TECHNICAL BIDS .....</b>  | <b>126</b> |
| <b>SECTION P – EVALUATION PROCESS OF PRICE BID .....</b>   | <b>127</b> |
| <b>SECTION Q – DE-INSTALLATION AND DISPOSAL EXISTING EQUIPMENTS .....</b>  | <b>129</b> |
| <b>SECTION R – ANNEXURES .....</b>   | <b>132</b> |
| <b>ANNEXURE A: LIST OF LOCATIONS.....</b>  | <b>132</b> |
| <b>ANNEXURE – I- COVERING LETTER .....</b>   | <b>133</b> |
| <b>ANNEXURE – II – MAKE AND MODEL .....</b>  | <b>136</b> |
| <b>ANNEXURE – III– PRICE BID FORMAT .....</b>  | <b>140</b> |
| <b>ANNEXURE - IV: DECLARATION CUM UNDERTAKING FOR SAFETY LAWS AND REGULATIONS COMPLIANCE.....</b>  | <b>148</b> |
| <b>ANNEXURE -V: DECLARATION FOR CONTRACTUAL LITIGATIONS.....</b>   | <b>149</b> |
| <b>ANNEXURE -VI DECLARATION ABOUT THE SITE VISIT .....</b>   | <b>150</b> |
| <b>ANNEXURE - VII: MANUFACTURER’S AUTHORIZATION FORMAT .....</b>   | <b>151</b> |
| <b>ANNEXURE- VIII: BIDDER INFORMATION SHEET &amp; UNDERTAKING .....</b>  | <b>152</b> |
| <b>ANNEXURE - IX: BANK DETAILS OF BIDDER.....</b>  | <b>153</b> |
| <b>ANNEXURE - X: EARNEST MONEY DEPOSIT (EMD) BANK GUARANTEE FORMAT .....</b>   | <b>154</b> |
| <b>ANNEXURE - XI: PERFORMA FOR CONTRACT SECURITY-CUM-PERFORMANCE GUARANTEE BY CONTRACTOR.....</b>  | <b>156</b> |
| <b>ANNEXURE- XII: FORMAT FOR SELF-DECLARATION – NO BLACKLISTING CERTIFICATE .....</b>  | <b>159</b> |
| <b>ANNEXURE - XIII: UNDERTAKING AS PER GUIDELINES PUBLISHED BY MINISTRY OF FINANCE, DEPT. OF EXPENDITURE, PUBLIC PROCUREMENT DIVISION DATED 23.07.2020 .....</b> | <b>160</b> |
| <b>ANNEXURE - XIV: FORMAT OF AFFIDAVIT [TO BE SUBMITTED PHYSICALLY ON STAMP PAPER].....</b>  | <b>161</b> |



**ANNEXURE –XV Schedule of Deviation From Technical Specifications and Commercial Terms and Conditions ..... 163**



**SECTION A - SCHEDULE TENDER NOTICE:**

**E- Tender No: GIPCL/SLPP/RFID/26-27/01**

|                                |   |
|--------------------------------|---|
| Item Description               | Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines  |
| Location details               | As per Section R - Annexure A.  |
| Contract Period                | <p>The project shall include a Go-Live and stabilization period of 06 (six) months, followed by a Warranty Period of 01 (one) year, inclusive of 03 (three) months of handholding/support services. Thereafter, the successful bidder shall provide a Comprehensive Annual Maintenance Contract (CAMC) for a period of 04 (four) years.</p> <p>In addition, an optional extension of CAMC for a further period of 02 (two) years, i.e., the 6th and 7th years, may be availed at the sole discretion of the bidder.</p>   |
| Tender fees (Non-refundable) * | <p><b>Rs. 5,900/- (Rupees Five Thousand Nine Hundred Only)</b>, including GST, submitted through Demand Draft (DD) / RTGS issued by banks as mentioned on the completion of this notice. Tender Fees in the form of DD shall be submitted in the physical bid in favor of <b>“Gujarat Industries Power Company Limited”</b> payable at <b>Vadodara</b>, whereas RTGS shall be submitted on or before the last date of online bid submission. Bidder has to upload a scanned copy of DD OR RTGS details on (n)Procure web portal in the preliminary stage.</p>   |
| Earnest Money Deposit (EMD)*   | <p><b>Rs. 5,00,000/- (Rupees Five Lacs Only)</b> should be submitted through DD / RTGS / Bank Guarantee (BG) issued by banks as mentioned on the completion of this notice. EMD in the form of DD / BG should be submitted in the physical bid in favor of <b>“Gujarat Industries Power Company Limited”</b> payable at <b>Vadodara</b>. BG should be submitted as per the format mentioned in <b>Annexure X</b> in this tender document. EMD through RTGS shall be submitted on or before the last date of online bid submission.</p> <p>NOTE: MSME &amp; Start-up bidding entities are not exempted from Tender fees &amp; EMD.</p> |
| E – Tendering website details: | <a href="https://tender.nprocure.com">https://tender.nprocure.com</a> .   |
| Online Tender Issue Date       | 04/06/2026  |



|   |  |
|---|--|
| Last Date & Time of online submission of Bid.   | 25/06/2026 up to 18:00 Hrs.  |
| Last Date & Time of physical submission of EMD & all necessary tender documents by <b>Registered AD or speed post only.</b> | 25/06/2026, up to 17:30 Hrs. at Gujarat Industries Power Company Ltd., Post: Ranoli-391 350, Dist.: Vadodara, Gujarat-India  |
| Date & Time for opening of Technical Bid  | 25/06/2026 at 17:30 Hrs. at GIPCL, Vadodara.   |
| Bid Validity  | 180 days from the date of bid submission.  |
| Required number of offers   | <p><b>Technical offer</b></p> <p><input type="checkbox"/> Technical bid (Physical)</p> <ul style="list-style-type: none"> <li>➤ 1 Original</li> <li>➤ Pen Drive Containing the Soft Copy of Technical Bid</li> <li>➤ Tender Fee (Original only).</li> <li>➤ EMD (Original only).</li> </ul> <p><b>Price offer</b></p> <p><input type="checkbox"/> Online Submission only on website <a href="https://tender.nprocure.com">https://tender.nprocure.com</a>.</p>   |
| Bid Evaluation Criteria (Selection Method)  | <ol style="list-style-type: none"> <li>1) The bid evaluation process shall consist of two stages, namely: <ul style="list-style-type: none"> <li>(a) Technical Evaluation; and</li> <li>(b) Price Bid Evaluation.</li> </ul> </li> <li>2) Only those bidders who are declared technically qualified by GIPCL shall be eligible for opening and evaluation of the Price Bids.</li> <li>3) The contract shall be awarded to the bidder quoting the lowest Total Contract Price (L1), either: <ul style="list-style-type: none"> <li>(a) through direct Price Bid evaluation; or</li> <li>(b) through an e-Reverse Auction (<b>only if conducted by GIPCL</b>).</li> </ul> </li> <li>4) GIPCL reserves the right, at its sole discretion, to determine the mode of final price discovery, including: <ul style="list-style-type: none"> <li>(a) declaration of the successful bidder based on the L1 Price Bid; or</li> </ul> </li> </ol> |



|  |   |
|--|---|
|  | <p>(b) may conduct of an e-Reverse Auction amongst technically qualified bidders.</p> <p><b>5) Bidders are strictly advised to quote their most competitive and best prices in the Price Bid itself.</b> GIPCL reserves the sole and absolute right to decide whether to conduct an e-Reverse Auction, depending upon the requirements, circumstances, and outcome of the bidding process. Accordingly, the e-Reverse Auction process may or may not be conducted at the discretion of GIPCL.</p> |
| Joint venture/consortium / sub-contracts | ✓ Participation in this RFP by Joint Venture (JV), consortium, or proprietorship entity shall not be permitted.   |

Note:

A. GIPCL reserves the right, at any stage of the bidding process, to reject any or all bids received, to award/split the work among one or more bidders, or to cancel/scrap the tender in whole or in part, without assigning any reason whatsoever.

B. Submission of incorrect, misleading, or false information, or any instance of unprofessional conduct by the bidder, shall constitute sufficient grounds for rejection/disqualification of the bid at any stage of the bid evaluation process.

C. GIPCL shall evaluate and compare only those bids that are found to be substantially responsive to the requirements of this RFP. The evaluation shall be carried out in accordance with the criteria and methodology specified in this RFP document, and GIPCL reserves the right to select the bid deemed most advantageous to the organization.

| <b>* GIPCL's Bank Details for Tender Fee, EMD and Security Deposit</b> |  |
|--|--|
| Bank Name  | State Bank of India  |
| Beneficiary Name   | Gujarat Industries Power Company Limited   |
| Nature of Account  | CC Account   |
| Account No.  | 10323432215  |
| Branch MICR code number  | 390002030  |
| Bank Branch address  | Industrial Finance Branch, 3 <sup>rd</sup> & 4 <sup>th</sup> Floor, MID Town Heights, Jetalpur Road, Vadodara – 390 007. |
| IFSC (Indian Financial System Code)                                    | SBIN0001946  |

**Note: Bidders are requested to submit Tender fees / EMD / Security deposit in any form (DD / RTGS / Bank Guarantee) issued by all Nationalized Banks, Axis Bank, ICICI Bank, HDFC Bank, Kotak Mahindra Bank, IndusInd Bank, Federal Bank, Bandhan Bank, IDBI Bank, Karur Vysya Bank only. No other banks are allowed other than above list.**



## **SECTION B - DEFINITIONS:**

**Acceptance Testing** means formal testing conducted by GIPCL to verify whether the supplied hardware, software, integrations, and services comply with the technical specifications, functional requirements, and performance criteria defined in the Contract.

**Addendum** means any supplementary document, clarification, or additional information issued by GIPCL after publication of the RFP and before submission of bids.

**AMC** means Annual Maintenance Contract.

**Applicable Laws** means all laws, promulgated or brought into force in the whole or in part of the territory of India, including regulations and rules made thereunder, including amendments thereof, and judgments, decrees, injunctions, writs and orders of any court of record, as may be in force and effect during the subsistence of this Contract.

**API (Application Programming Interface)** means a defined software interface enabling communication between different applications or systems.

**Authorized Signatory** means the bidder's representative/officer vested (explicitly, implicitly, or through conduct) with powers to commit the authorizing organization to a binding agreement. Also called signing officer / authority having Power of Attorney (PoA) from the competent authority of the respective bidding firm.

**ANPR** means Automatic Number Plate Recognition.

**Backup** means periodic duplication and secure storage of system data, configuration, applications, and databases for restoration purposes.

**Bid / Proposal** means the formal offer, including all documents, forms, undertakings, technical details, commercial submissions, annexures, declarations, and supporting materials submitted by a bidder in response to this Request for Proposal (RFP), for consideration by GIPCL for execution of the Project, in accordance with the terms and conditions of the Tender Document.

**Bidder** means a company/LLP registered in India that submits a bid in response to this RFP.

**Change in Tax Law** shall mean any of the following events, which become effective after the date for submission of the price bid for the Contract.

- ❖ Enactment of any new tax law in India;
- ❖ Modification or repeal of any taxes in India.



- ❖ Any change in the interpretation or enforcement of any tax laws by the Government of India or State Government or local authority via issuance of circulars/clarifications by the Governmental Authority
- ❖ Increase or decrease in the rate of taxes in force on the date of the bid submission;
- ❖ Change in the basis of computation of taxes in force on the date of the bid submission.

**CGM** means Commissioner of Geology and Mining

**Corrective Maintenance** means repair or restoration activities carried out after the occurrence of a defect or failure.

**Comprehensive Annual Maintenance Contract (CAMC)** means post-warranty support services, including repair, replacement, preventive maintenance, software updates, patches, onsite support, and operational maintenance of all supplied hardware and software.

**Corrigendum / Amendment** means any modification, revision, deletion, clarification, or change issued by GIPCL in the RFP document or tender process.

**Critical Incident** means a system failure impacting core dispatch operations, weighbridge operations, RFID processing, ANPR processing, database functionality, or server availability.

**CCTV** means Closed Circuit Television

**CMM** means Capability Maturity Model

**Cyber Security Incident** means any unauthorized access, malware attack, ransomware attack, data breach, hacking attempt, network intrusion, or compromise of digital systems.

**Dashboard** means Centralized graphical interface for monitoring operational and analytical data.

**Database** means structured electronic data repository used by the application system.

**Data Privacy** means protection and lawful handling of operational, transactional, employee, vendor, vehicle, and surveillance data collected under the Project.

**Disaster Recovery** means policies, systems, and procedures designed to restore system functionality after catastrophic failures or cyber incidents.

**Disqualified Bidder** means a bidder who fails to meet the Pre-Qualification Criteria, Technical Qualification Criteria, or any mandatory requirement of the RFP. Further, submission of incomplete, false, misleading, non-responsive, or non-compliant documents/information, deviation from the tender conditions, non-submission of mandatory documents, inclusion of Price Bid within



the Technical Bid, or failure to comply with any material requirement of the RFP shall constitute sufficient grounds for disqualification of the bidder at any stage of the tender evaluation process.

**Downtime** means the total period during which the system or any critical component remains unavailable, non-functional, or partially functional.

**Factory Acceptance Test (FAT)** means pre-dispatch testing conducted at OEM or bidder premises before delivery.

**GIPCL** means Gujarat Industries Power Company Limited.

**GPS** means Global Positioning System

**GPRS** means General Packet Radio Services

**GILDMS** means GIPCL Integrated Lignite/Limestone Dispatch Management System

**Go-Live** means the date on which the integrated RFID dispatch management system becomes fully operational and accepted by GIPCL after successful completion of testing and commissioning.

**Handholding Period** means the post-Go-Live support period during which the bidder shall provide onsite operational assistance, troubleshooting, training, stabilization, and technical support.

**IoT** means Internet of Things.

**Integration** means interfacing and interoperability between RFID systems, weighbridge systems, CCTV systems, ANPR systems, servers, databases, CGM e-royalty systems, ERP systems, and other third-party systems.

**Intellectual Property Rights** means patents, utility models, registered designs, trademarks, service marks, applications for any of the foregoing and the right to apply for any of the foregoing, design rights, copyright, ownership of inventions, confidential information and know-how and any similar rights.

**IP Camera** means Internet Protocol based Camera

**Incident** means any unplanned interruption, malfunction, degradation, security breach, or failure affecting system operations.

**LAN** means Local Area Network.

**MIS Reports** means Management Information System reports generated by the application software.



**OVCD** means Over Voltage Cut-off Device

**OEM** means an Original Equipment Manufacturer Company that is incorporated in India or abroad, which has management control over the manufacturing/production process, Quality Assurance, Procurement of Raw materials/manufacturing process, inputs, marketing and warranty services of the resultant products of at least one manufacturing facility/factory where the manufacturing of equipment, related accessories as required for the project, etc., is carried out.

**Preventive Maintenance** means scheduled inspection, servicing, calibration, software updates, health checks, and replacement activities carried out to avoid system failures.

**Purchaser/GIPCL/Owner** means Gujarat Industries Power Company Limited, shall include their legal representatives, successors and assigns.

**Rates / Prices** means Prices of supply, installation, testing, Go-Live & maintenance of goods and services quoted by the bidder in the price bid submitted and/or mentioned in the work order.

**Redundancy** means duplication of critical system components to ensure uninterrupted operations in case of component failure.

**Request for Proposal (RFP)** means this tender document, including all schedules, annexures, corrigenda, amendments, addenda, clarifications, and subsequent communications issued by GIPCL for selection of a bidder for execution of the Project.

**RFID** means Radio Frequency Identification

**Site Acceptance Test (SAT)** means testing conducted at GIPCL site after installation and commissioning.

**Source Code** means the human-readable programming code of the application software developed or customized under this project.

**Successful bidder** means the technically qualified bidder duly emerged as the L1 bidder either through a submitted price bid or through an e-Reverse Auction.

**Service-level Agreement (SLA)** means the mutually agreed measurable service performance standards including uptime, response time, resolution time, system availability, incident handling, and penalties applicable during warranty and CAMC periods.

**SLPP** means Surat Lignite/lime Power Plant

**SRS** means Software Requirements Specifications



**SOR** – Schedule of Rates

**SD** means Security Deposit.

**Tender / RFP / Project** means E-Tender (No: GIPCL/SLPP/RFID/26-27/01) issued for “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines”

**Technically Qualified Bidder** means the bidder qualifying the Pre-Qualification Criteria in **Section K** as well as securing the minimum required score for technical eligibility as **per the criteria Section M and the evaluation criteria of Section N.**

**UHF RFID** means Ultra High Frequency Radio Frequency Identification technology.

**Uptime** means the percentage of total operational time during which the system, application, server, or equipment remains fully functional and available for use.

**URS** means User Requirement Specifications

**User Acceptance Test (UAT)** means final validation testing performed by GIPCL users before formal Go-Live approval.

**VAS** means Video Analytics software

**VMS** means Video Management System.

**WAN** means Wide Area Network.

**Work Order OR Contract** means an authorization letter issued by GIPCL for engaging a successful bidder for implementation of the Project within defined stipulated timeline.



## **SECTION C - INVITATION FOR BIDS & INSTRUCTIONS TO BIDDERS:**

### **PLANT SYNOPSIS**

Gujarat Industries Power Company Limited (GIPCL) is a Premier Power Utility in the State of Gujarat with an installed capacity of 1859.40 MW comprising of various conventional and renewable projects.

GIPCL has commissioned its first power project, a 145 MW gas-based combined cycle power plant in 1992 at Vadodara. It has expanded its capacity by commissioning of 165 MW Naptha and gas-based Combined Cycle Power Plant at Vadodara in 1997.

Surat Lignite Power Plant (SLPP) with four units of 125 MW capacity each is located at Village: Nani Naroli, Taluka: Mangrol, District: Surat in Gujarat. GIPCL is also operating its own captive Lignite and Lime Stone Mines close to the Power Plant. The Power Plant is based on Circulating Fluidized Bed Combustion (CFBC) technology for the Boilers, where Lignite and Coal is burnt along with Lime Stone in the Combustor of the Boiler.

GIPCL forayed into Solar Power Generation in the year 2012 with the commissioning of 5 MW Solar Power Plant on the Vastan Mine dump top adjacent to Surat Lignite Power Plant. GIPCL set up two Agri-Solar Pilot Projects 2 x 1 MW at Village Amrol, Dist. Anand and Village Vastan, Dist. Surat in the year 2016.

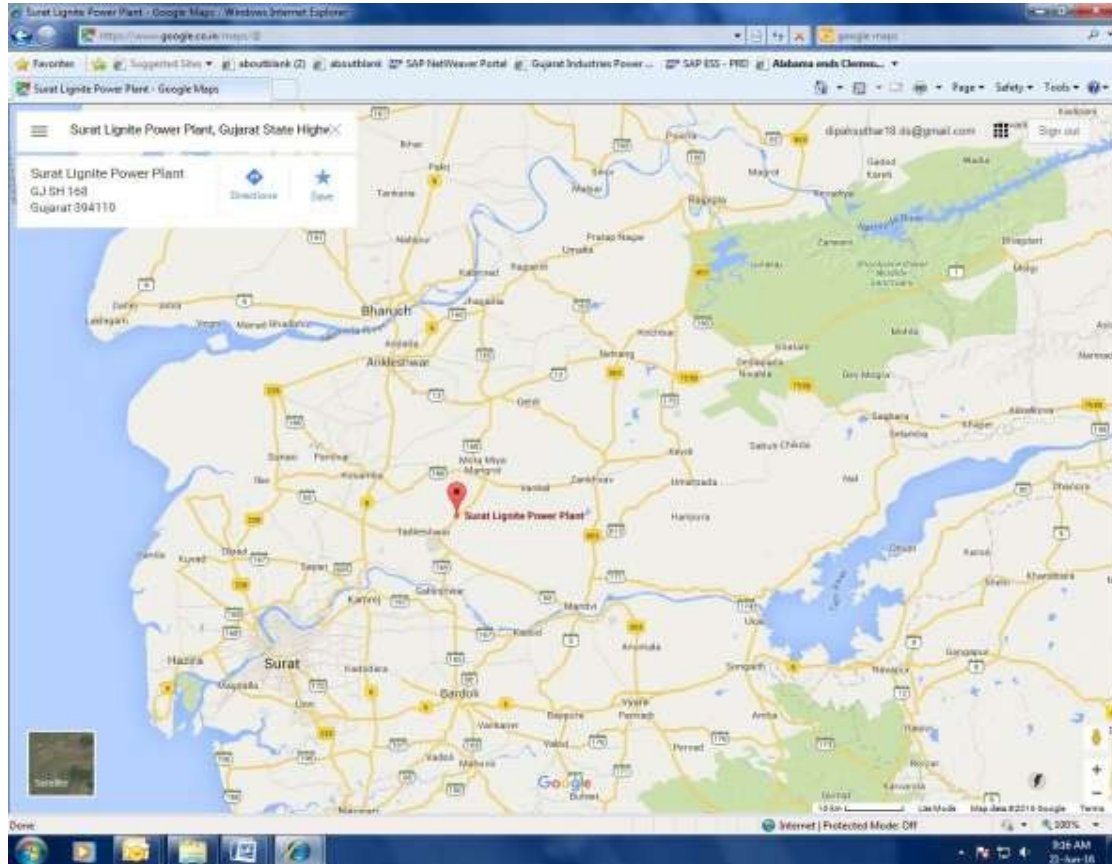
The current installed Solar Capacity of GIPCL is 937 MW, with assets spread across Gujarat State. GIPCL has commissioned the 600 MW Solar Power Plant in the Khavda RE Park on 25.12.2025. The 75 MW Vastan Group Captive Solar Power Plant on Vastan Mine Reclaimed Land at Taluka Vastan, Dist. Surat was commissioned in June, 2025. GIPCL commissioned a 100 MW Solar Project in the Raghnesda Solar Park, Dist. Banaskantha in the year 2021. The 75 MW and 80 MW Solar Projects in Gujarat Solar Park, Village Charanka, Dist. Patan were commissioned in the year 2019 and 2017 respectively.

GIPCL has also successfully commissioned 112.4 MW wind farms at different location in the Saurashtra and Kutch regions of Gujarat.

The Company has also been allotted land for development of a 2375 MW Renewable Energy Park at Khavda in the Kutch district of Gujarat. GIPCL's 400/33 KV, 1200 MW Pooling Sub-station-1 (PSS-1) and Internal transmission line have been commissioned in April, 2025. The 400/33 KV, 1200 MW Pooling Sub-station-2 (PSS-2) is nearing completion. GIPCL's 500 MW Capacity Solar Projects are under construction in its own 2375 MW Khavda RE Park having 25 years Long-term PPA tie-up with GUVNL.



Surat Lignite Power Plant (SLPP) is accessible by road from Kim and Kosamba, which are on Mumbai-Ahmadabad highway. From Kosamba, SLPP is around 32 KM, out of which 27 KM is part of the National & State Highway and balance 5 KM is District Road. From Kim, SLPP is around 18 KM, out of which 13 KM is the State Highway and balance 5 KM is District Road. The nearest Broad Gauge Railway Line is at Kim, which is around 21 KM from the SLPP. Surat is approximately 50 KM from the SLPP. Location Map for SLPP is as under.



## 1. Invitation for bids

This invitation for bids is for “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines” At the time of submission of the bid document, the bidder has to submit

(i) Non-refundable Tender Fee amounting to **Rs. 5,900/- (Rupees Five Thousand Nine Hundred Only)**, including GST in the form of Demand Draft (DD) / RTGS issued by banks as specified in the clause of the Schedule Tender Notice. Tender Fees in the form of DD shall be submitted in the physical bid in favor of “**Gujarat Industries Power Company Limited**” payable at **Vadodara**, whereas RTGS shall be submitted on or before the last date of online bid submission. Bidder has to upload a scanned copy of DD OR RTGS details on (n)Procure web portal in the preliminary stage. Failure to furnish Tender Fees would result in rejection of such bid.



(ii) Refundable EMD of **Rs. 5,00,000/- (Rupees Five Lacs Only)** in the form of Demand Draft / RTGS / Bank Guarantee (BG) issued by banks as specified in the clause of Schedule Tender Notice. RTGS should be submitted on or before the last date of online bid submission. DD and BG shall be submitted as part of the technical bid. Bidder can submit BG as per the format mentioned in **Annexure X** and in favor of **“Gujarat Industries Power Company Limited”** payable at **Vadodara**. In case of EMD submitted in the form of Bank Guarantee (BG), such BG shall have a minimum validity of 180 days from the bid submission date, plus 90 days of claim period. Failure to furnish EMD would result in rejection of such bid.

### **1.1 Reserve Rights of GIPCL**

GIPCL may, for any reason, add/modify/amend/relax/cancel any terms/conditions/criteria of the tender document during any stage of the tendering process, and such amendments shall be binding on all bidders. GIPCL at its own discretion reserves the right to reject any bid, modify or scrap the whole tender at any time, without assigning any reason or incurring any liability. To assist in evaluation, comparison, and an examination of bids, GIPCL may, at its sole discretion, ask the bidder for a clarification of its bid, including breakup of unit rates etc. The request for clarification and the response shall be in writing. If a response to clarification is not received within prescribed timeframe, GIPCL reserves the right to make its own reasonable assumptions and take an appropriate decision and GIPCL's decision shall be binding on that bidder. GIPCL reserves the right to modify / change dates of bid opening/submission / technical presentation at its own discretion and these changes shall be binding on the bidders.

### **1.2 Due Diligence**

Bidder is expected to examine all instructions, forms, terms and specifications mentioned in the tender document. The bid must be precise, complete and in the prescribed format as per the requirements of the bid document. Failure to furnish all information required by the tender document or submission of a bid not responsive to the tender's required documents in any respect will be at bidder's risk and may result in rejection of such bid. GIPCL shall, at its sole discretion, be entitled to determine the adequacy/sufficiency of information provided by the bidder.

### **1.3 Cost of Bidding**

Bidder shall bear all costs associated with the preparation and submission of its bid. GIPCL, in no case will be held responsible or liable for these costs, regardless of conduct or outcome of bidding process.

### **1.4 Site Visit**

- ✓ **It is Pre-Requisite and mandatory condition for all interested bidders to visit the power plant and mine site** after downloading the tender copy to understand the location, Truck movement, actual working conditions, compliance related to labour, safety, e-royalty pass issue on behalf of the Chief of Geology and Mines, etc. Bidder is expected to visit and examine the location of mines with prior permission of GIPCL and its surroundings and obtain all information that may be necessary for preparing the bid at their own interest and cost.
- ✓ The bidders shall examine the site of works and its surroundings at their own responsibility.



The bidders shall collect information that may be necessary for preparing the bid. All costs and liabilities arising out of the site visit shall be at the bidder's account.

- ✓ Each bidder is expected to get fully acquainted with the local conditions and factors such as historical, geographical, social, political, legal, administrative, and/or infrastructure etc., which would have any effect on the performance of the project and /or the cost.
- ✓ Each bidder is expected to know all conditions and factors, which may have any effect on the execution of the project after issue of work order as described in the bidding documents. GIPCL shall not entertain any request for clarification from the bidder regarding such local conditions.
- ✓ It is the bidder's responsibility that such factors have properly been investigated and considered while submitting the bid proposals and no claim whatsoever including those for financial adjustment to the project awarded under the bidding documents, will be entertained by GIPCL. Neither any change in the time schedule of the project nor any financial adjustments arising thereof shall be permitted by GIPCL on account of failure of the bidder to know the local laws/conditions.
- ✓ Bidder is expected to visit and examine the location of mines with prior permission of GIPCL and its surroundings, and obtain all information that may be necessary for preparing the bid at their own interest and cost.
- ✓ **Ignorance of site conditions shall not be accepted by GIPCL as basis for any claim for compensation.** The submission of a bid by the bidder will be construed as evidence that such an examination was made. Any later claims/disputes in regard to rates quoted shall not be entertained or considered by GIPCL.
- ✓ The rates quoted by the bidder shall be based on his own knowledge and judgment of the
- ✓ conditions and hazards involved and shall not be based on any representations of GIPCL's
- ✓ local designated official/authority.
- ✓ The site visit must be certified by an authorized GIPCL official. The declaration for the site visit is provided in **Annexure-VI under SECTION-R.**

## **2. Guidelines / Preparations of Bids**

### **2.1 Language of the bid**

The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and GIPCL, shall be written in the English language only.

### **2.2 Mandatory Guidelines for Bid Submission**

Bidder has to submit all the above-mentioned documents in physical mode in a separate envelope along with Tender fees and EMD clearly describing **"E-Tender No: GIPCL/SLPP/RFID/26-27/01 - Technical Bid"** at the below-mentioned address:

**Kind Attn: General Manager (Materials & Contracts)**

To,

Gujarat Industries Power Company Limited  
P.O.-Ranoli- 391350,



Dist.: - Vadodara, Gujarat, India.

- ✓ The bidder shall submit an undertaking stating
  - (i) compliance with the technical specifications of RFP and
  - (ii) no deviation with all terms and conditions of the tender document is preferred. In case the bidder fails to submit the entire relevant documentary evidence, his bid is liable for rejection by GIPCL without assigning any reason thereof.
- ✓ **The Bidder shall submit a soft copy of the Technical Bid in a pen drive along with the physical bid submission.**
- ✓ Bidder shall also include an undertaking from respective OEMs on the availability of spare parts for a period of 05 years from the project Go-Live date at a reasonable rate. The spare parts and other necessary installations for keeping the whole system operational shall be provided and installed by the bidder. The successful bidder shall be responsible for the operation, maintenance, and uninterrupted functioning of the entire system for a period of 05 (five) years from the date of Project Go-Live. Further, the maintenance and operational support for the 6th and 7th years shall be optional and may be availed at the sole discretion of GIPCL under the terms of the extended CAMC, if applicable.
- ✓ Bidder should submit followings documents from respective product OEMs:
  - Authorization for bidder
  - Confirming that quoted products are not “End of life”
  - Undertaking to service and support, including spares, patches for quoted Products and/or upgraded version shall be available for next 05 years.

### **3. Instructions To Bidders for Online Tendering**

Tender documents are available only in electronic format, which Bidders can download from the website <https://www.nprocure.com> and <https://tender.nprocure.com> and can also be viewed from the Company’s website [www.gipcl.com](http://www.gipcl.com).

- 1) Price bid should be submitted online through the website <https://tender.nprocure.com> only. **No physical submission of price bid will be entertained**, as it should be furnished online only.
- 2) To participate in the e-Reverse Auction, Bidders have to create an e-Auction USER ID on <https://e-auction.nprocure.com>. Only the technically qualified bidders shall be notified to register for the e-Reverse Auction Process (GIPCL reserves the right to select the successful bidder either through L1 price bid or e-Reverse Auction).
- 3) In case of any further information regarding online bidding or if a Bidder needs any assistance in accessing/ submission of online price bid/ clarification or if training is required for participating in online e-reverse bidding, then the Bidder can contact the following office for assistance or training:

**(n) Procure Cell, (n) code solutions-A division of GNFC Ltd.,** Head Office, (n)Code Solutions (A Division of GNFC Ltd 4th Floor, Tower One, Road 5C, Zone 5, Gujarat Information Finance Tech City (GIFT City), Gandhinagar - 382355. India. Toll Free Number: 7359-021-663, Support: 079- 4000 7517/515/514, Email: [nprocure@ncode.in](mailto:nprocure@ncode.in)  
**(n)Code Solutions (A Division of GNFC Ltd.)**



403, GNFC Infotower, S.G. Highway, Bodakdev, Ahmedabad - 380054. Support Phone: 079-40007517/515/514 email: nprocure@ncode.in

- 4) Bidders who wish to participate in tenders will have to procure / should have legally valid Digital Certificate (Class III) as per Information Technology Act-2000, using which they can sign their electronic bids. Bidders can procure the same from any of the license certifying Authority of India or can contact (n)code solutions- a division of GNFC Limited, who are licensed Certifying Authority by Government of India.
- 5) The Price bids should be digitally signed. The bidders are required to contact at the below-mentioned address for detailed training on on-line tendering and also for the requirements.  
(n) Code Solutions - A division of GNFC Ltd.  
403, GNFC Infotower, S.G Road,  
Bodakdev, Ahmedabad – 380054 (Gujarat, India)

Toll Free: 7359 021 663 (9:30 AM to 8:00 PM)

Tel: 079-26857315/316/317

E-mail: nprocure@ncode.in, website: <https://tender.nprocure.com>

#### 4. Submission of Bids

##### A: Mode of Submission

The Bids shall be submitted in two parts along with EMD, Tender Fee within the dates specified in NIT as under: -

- (a) The Bidder shall submit **the Pre-Qualification Bid and Technical Bid in physical form along with a pen drive containing soft copies of all documents pertaining to the Technical Bid only**, excluding the Price Bid i.e.(without price bid).
- (b) Price Bid (in online mode)

##### **a) Pre-Qualification and Technical Bid (without price bid):**

**The following Documents shall also be submitted along with EMD in Physical Form to GIPCL-Vadodara.**

The following supporting documents shall also be submitted along with the EMD, Tender Fee in physical form:

1. The Tender Documents duly signed in all pages without price bid, along with techno-commercial deviations, if any shall accompany the bid. If the bidder doesn't have deviations, then write "NIL" in the deviation sheet (**Annexure-XV**) and then submit with sign & stamp.
2. EMD, Tender FEE in the form of DD/BG/Online with receipt.
3. All documentary proof substantiating the fulfilment of pre-qualification criteria as per **SECTION K** of the RFP document.
4. Interested bidders are requested to submit the Technical Bid in physical form along with the pen drive **at least 02 (two) days** prior to the due date of online bid submission, in order to avoid the risk of non-participation due to any unforeseen circumstances.



|   |  |
|---|--|
| EMD, Tender Fee and all the documents asked in the tender (except price bid) shall be submitted with duly signed and stamped in physical on or before the due date. | Address for Submission:<br>General Manager<br>(Materials & Contracts)<br><br>Gujarat Industries Power Company<br>Limited, P.O. Ranoli – 391350<br>Dist.: Vadodara, Gujarat - India |
|---|--|

**b) Price Bid:**

The Price Bid shall be submitted online only, on or before the prescribed Last Date and Time for online bid submission, **through the nProcure portal.**

**SECTION D – GENERAL TERMS & CONDITIONS:**

The bid prepared by bidder shall comprise of the following components. The bids not conforming to these requirements shall be summarily rejected.

**i) Technical Bid**

Technical Bid (shall comprise of covering Letter, Tender Fees, EMD, Technical Proposal and other required documents such as brochures, product details, etc. Please note that no price schedule shall be indicated/submitted in/as a part of the Technical Bid. The Bidder shall submit the Technical Bid along with a pen drive containing soft copies of all documents pertaining to the Technical Bid only. Bid along with the price bid will be liable for rejection of the entire bid without assigning any reason. The price bid shall only be quoted online at <https://tender.nprocure.com/> in the mentioned format only. The technical bid shall be submitted with physical bid submission.

**Bidders are requested to note the following:**

- The bidder has to adhere with Pre-Qualification Criteria.
- Bidder shall include a compliance statement of technical specifications mentioned in this tender document (as a separate section in Technical Bid).
- The bidder shall clearly specify only one make/OEM and one model for each individual product/item in the Technical Bid. While products from different OEMs may be proposed for different components of the project, quoting multiple makes/OEMs or multiple models for the same product/item shall be treated as non-compliance and may result in rejection of the bid during technical evaluation.
- Bidder cannot quote/propose those products whose OEM (Original Equipment Manufacturer) belongs to a country which shares a land border with India.
- Bidder shall include any additional hardware or software required to make their solution fully functional as per requirement.



#### **ii) Price bid**

The bidder shall strictly adhere to format of the Price bid as specified in the **ANNEXURE III** of bid document. The Price bid shall be submitted online only at [https:// tender.npocure.com/](https://tender.npocure.com/). The Price bid submitted in any other form and format shall not be considered valid and such bid is liable for rejection without assigning any reason.

#### **iii) Tender Fee (Non-Refundable)**

Bidders must submit, along with their bids, non-refundable Tender Fee amounting of **Rs. 5,900/- (Rupees Five Thousand Nine Hundred Only)**, including GST in the form of Demand Draft (DD) / RTGS issued by banks as specified in clause of the Schedule Tender Notice. Tender Fees in the form of DD shall be submitted in the physical bid in favor of “**Gujarat Industries Power Company Limited**” payable at **Vadodara**, whereas RTGS shall be submitted on or before the last date of online bid submission. Bidder has to upload scanned copy of DD OR RTGS details on nProcure web portal in the preliminary stage. Failure to furnish Tender Fees would result in rejection of such bid. Tender Fees shall be furnished in Indian Rupees (INR).

#### **iv) Earnest Money Deposit (EMD)**

Bidders must submit, along with their bids, refundable EMD of **Rs. 5,00,000/- (Rupees Five Lacs Only)** in the form of Demand Draft / RTGS / Bank Guarantee (BG) issued by banks as specified in clause of Schedule Tender Notice. RTGS should be submitted on or before last date of online bid submission. DD and BG shall be submitted as a part of the technical bid. Bidder can submit BG as per format mentioned in **Annexure X** and in favor of “**Gujarat Industries Power Company Limited**” payable at **Vadodara**. In case of EMD submitted in form of Bank Guarantee (BG), such BG shall have minimum validity of 180 days from bid submission date plus 90 days of claim period. Failure to furnish EMD would result in rejection of such bid. EMD shall be furnished in Indian Rupees (INR).

#### **❖ Refund of EMD to Unsuccessful Bidder**

Unsuccessful Bidder’s EMD shall be refunded without any interest within 30 days after Security Deposit submission by successful bidder.

#### **❖ Refund of EMD to Successful Bidder**

Successful bidder’s EMD without any interest will be refunded within 30 days after Security Deposit submission.

#### **❖ Forfeiture of EMD**

EMD can be forfeited if bidder

- Withdraws his bid during bid validity period OR does not accept the correction of errors  
OR

In case the successful bidder fails



- To furnish a Security Deposit with a sufficient amount / within the specified timeline / OR
- To accept the Work Order within the specified timeline

EMD will be retained in case of a successful bidder and will not carry any interest. EMD of the successful bidder shall be refunded on submission of the security deposit as per format mentioned in this tender document. If required, GIPCL may ask successful bidder to extend EMD (in case of BG) validity timeline till Work Order issuance. Failure of extending EMD validity timeline (in case of BG) shall make sufficient ground for considering that bid as non-responsive.

**v) Undertaking**

An undertaking compulsory required from bidder stating compliance with all Technical Specifications and terms and conditions mentioned in tender document.

**5. Bid Price**

Bidder shall quote price in clear terms. Bidder has to quote price in Price bid as per format described in **ANNEXURE III**. The Price bid submitted in any other form and format shall not be considered valid and such bid is liable for rejection without assigning any reason. The rates quoted shall be inclusive of GST applicable as on bid submission date. In the event of any increase or decrease of GST rate subsequent to award of work, which results in change in Work Order Value, successful bidder shall be covered for any such variation, i.e. neither bear additional GST rate nor will be beneficiary of reduction in GST Rate, subject to production of documentary proof to satisfaction of GIPCL to the extent which is attributable to such change as mentioned above.

**6. Period of Validity of Bids**

The bids submitted shall remain valid for a period of **180 days** from the final date of bid submission declared by GIPCL. Any bid with a validity period shorter than **180 days** shall be treated as non-responsive and may be rejected by GIPCL without any further correspondence.

GIPCL reserves the right to request the bidders to extend the validity period of their bids, if required. Failure or refusal by any bidder to extend the bid validity as requested by GIPCL may result in rejection of such bid.

In the event of extension of the bid submission date by GIPCL, the validity of the Earnest Money Deposit (EMD), wherever submitted in the form of a Bank Guarantee (BG), shall also be correspondingly extended by the bidder in accordance with the tender terms and conditions. Failure to extend the validity of the EMD/BG shall constitute sufficient grounds for treating the bid as non-responsive.

**7. Format and Signing of Bid**

**i) Number of Copies of Bid**



The bidder shall submit the original copy of the Technical Bid in separate sealed covers. Submission of the Price Bid in physical form is strictly prohibited. Any bid submitted with the Price Bid included along with the Technical Bid shall be treated as non-responsive and shall be rejected. The physical bid shall be submitted at the address below:

**Kind Attn: General Manager (Materials & Contracts)**

To,  
Gujarat Industries Power Company Limited  
P.O.-Ranoli- 391350,  
Dist.: - Vadodara Gujarat, India.

**8. Sealing and Marking of Bids**

**i) Enclosing of Bid**

Technical bid shall be comprised of Tender Fee, EMD, Pre-Qualification criteria supporting documents, along with brochures, technical specifications' compliance statement, technical bid documents, all annexures (**Except Annexure III- Price Bid**) as per the format mentioned in the tender document, etc. Tender Fee and EMD shall be placed and sealed in a separate cover and shall be marked as "**Tender Fee**" and "**EMD**" respectively. Tender Fee and EMD cover shall contain RTGS statement of respective transaction (original bank guarantee in case of EMD) as per the guidelines mentioned in the tender document. Tender Fee Cover, EMD cover, Pre-Qualification criteria supporting documents, technical bid documents, brochures, etc. shall be placed in one big cover clearly marked as "**E-Tender No: GIPCL/SLPP/RFID/26-27/01 - Technical Bid.**" All pages of the technical bid shall be signed and stamped by an authorized signatory of the bidder, except published materials such as brochures, product catalogues etc.

**ii) Responsibility of Bidder**

If outer envelope is not sealed and marked as required, GIPCL will not be held responsible for bid's misplacement or premature opening.

**iii) Rejection of Bid**

Any condition put forth by bidder non-conforming tender requirements shall not be entertained at all and such bid shall be rejected. Technical Bid and Price bid shall be submitted in the prescribed format through <https://tender.npocure.com/> (applicable for Price Bid only) along with physical submission of Pre-qualifications criteria supporting documents & technical documents. Price bid submitted in any other form and format shall not be considered valid and such bid is liable for rejection without assigning any reason. Bids submitted by Telex, fax or email will not be entertained. Technical bid (in physical mode) containing price bid will be rejected straightaway by GIPCL as non-responsive, without any further correspondence. Any bid not authenticated or not secured, will also be rejected straightaway by GIPCL as non-responsive, without any further correspondence. Any bid that fails to meet the prescribed pre-qualification criteria or does not



comply with the technical evaluation requirements shall be treated as non-responsive and may be rejected by GIPCL. Such non-responsiveness shall not subsequently be rectified by the bidder through correction, withdrawal, or modification of any non-conforming deviation, condition, or reservation.

## **9. Modification and Withdrawal of Bids**

### **i) Written Notice**

Bidder may modify or withdraw its bid after bid's submission provided that GIPCL receives written notice of modification or withdrawal before expiration of bid submission deadline.

### **ii) Signing and Marking of Notice**

Bidder's modification or withdrawal notice for submitted bid shall be prepared, sealed, marked and dispatched in accordance with the provisions of tender. A duly signed withdrawal notice may also be sent by post so as to reach at mentioned office before expiration of bid submission deadline.

### **iii) Last Date for Notice**

No bid shall be modified subsequent to bid submission deadline. No bid shall be withdrawn in interval started from bid submission date and bid validity expiration date. Withdrawal of a bid during this interval shall result in forfeiture of bid security (EMD) paid by bidder.

## **10. Deadline for Submission of Bids**

### **i) Last date for Submission**

In event of specified date for physical bid submission being declared a holiday for GIPCL, physical bid will be received up to the appointed time on next working day.

### **ii) Extension for Last date for Submission**

GIPCL may, at own discretion; extend bid submission deadline by amending tender document, in which case, all rights and obligations of GIPCL and bidders who have submitted bids shall remain same.

## **11. Late submission of physical bid**

Any bid received after physical bid submission deadline stipulated by GIPCL, shall be summarily rejected and returned unopened to bidder. GIPCL shall not be held responsible for any postal delay or non-receipt / non-delivery of bid documents within defined timeline. No correspondence in this regard shall be entertained.

## **12. Opening of Bids**

### **i) Opening of Technical and Price Bids**



The Technical Bid opening shall be conducted at the office of Gujarat Industries Power Company Limited (“GIPCL”). Thereafter, the Technical Bids shall be evaluated in accordance with the pre-qualification criteria and technical evaluation parameters specified in the Tender Document. Subsequent to completion of the technical evaluation process, the Price Bid opening shall also be conducted at GIPCL’s office. Only those bidders who qualify the technical evaluation and meet the prescribed technical qualification criteria shall be considered for further Price Bid evaluation.

**ii) Bids Not Considered for Evaluation**

Bids that are rejected during Preliminary/ Pre – qualification / technical evaluation process shall not be considered for further evaluation, irrespective of circumstances.

**13. Preliminary Examination**

**i) Completeness of Bids**

All necessary documents required for bid submission should be strictly complied. No new documents/papers that are found essential as a part of bid submission/evaluation shall be accepted after bid submission closing time at any stage of tender evaluation. However, GIPCL, on its sole discretion, may ask bidders to submit relevant documents in connection with the already submitted documents in technical bid for providing more clarity or resolving ambiguity if any.

**ii) Rectification of Errors**

Arithmetical errors will be rectified on following basis: -

- If there is a discrepancy between unit price and total price that is obtained by multiplying unit price and quantity, unit price shall prevail and total price shall be corrected accordingly.
- If there is a discrepancy between rates in words and figures, rate in words will govern. If bidder does not accept correction of errors, his bid will be rejected and his EMD may be forfeited.

**14. Contract Period**

The project’s contract period is distributed as stated below:

- ⇒ **Project Implementation & Go-Live Period - 06 Months** commenced from the Work Order issuance date.
- ⇒ **Warranty Period – 01 year** commenced from the Project Go-Live date and inclusive of 03 months of Hand-holding (stabilization) period.
- ⇒ **CAMC period – 04 years of comprehensive AMC period** optional for an additional two (02) years (6th and 7th year) with onsite service and support.

Bidder shall submit project execution / Go-Live schedule as an essential document of technical bid and non-compliance of same may lead to such bid’s rejection at the sole discretion of GIPCL.

**15. Project Management**

Successful bidder shall nominate one official as a Project Manager having detailed project knowledge from the project’s inception to its Go-Live and who will be single point of contact



during the contract period. Successful bidder has to submit level wise an escalation matrix comprised of contact official's name, his contact number, his e-mail address, designation along with escalation timeline at the time of work order acknowledgement letter / response.

#### **16. Work Order issuance**

The Work Order / Letter of Award (LoA) shall be issued to the successful bidder, whose bid is determined to be the lowest, responsive, and in full compliance with the terms and conditions of this RFP. The successful bidder shall be notified of the award by GIPCL through registered letter and/or e-mail and/or fax. This letter (hereinafter called "Work Order" OR "Contract") shall state the sum that GIPCL shall pay to bidder in consideration of execution, completion and maintenance of work as prescribed by Contract (hereinafter called "Contract Value") in accordance with Payment Terms.

#### **17. Additional Work**

If there is an increase in material (quoted goods/services) within 180 days from the work order date, bidder shall be given additional work on a pro-rata basis based on the rates finalized in the work order. Rates finalized in the work order will be valid for 180 days from the work order date.

#### **18. Modification of Scope of Work**

In case of modification of the Scope of Work, GIPCL shall be liable to pay price as mutually decided and agreed between GIPCL and successful bidder at the time of modification.

#### **19. Suspension**

GIPCL may, by written notice, suspend all payments to successful bidder, if failed to perform any of its obligations under the project including carrying out of services, provided that such notice of suspension

- (a) Shall specify nature of failure.
- (b) Shall request successful bidder to remedy such failure within a period not exceeding thirty (30) days after receipt of such notice of failure.

#### **20. Termination of Contract**

##### **20.1 Termination for Default:**

The Contractor shall be responsible for completing the work within the agreed time schedule and in accordance with the requirements of the Contract. In the event of failure to do so, GIPCL shall be entitled to recover all expenses incurred for completion of the work, together with ten percent (10%) overhead charges, from the Contractor's dues.

GIPCL may terminate the Contract by giving seven (07) working days' written notice in case of default requiring immediate corrective action, or fifteen (15) days' written notice in other cases, including where services are found unsatisfactory in respect of mobilization, timely completion,



workmanship, safety compliance (including adherence to GIPCL's OHSAS policy), or overall performance.

Without limiting the generality of the foregoing, the following shall constitute events of default:

- a. Non-compliance with contractual obligations, failure to respond to project requirements, or failure to comply with drawings, instructions, or directions issued by GIPCL and/or the Engineer within stipulated timelines;
- b. Failure to mobilize adequate resources, manpower, or equipment as required;
- c. Negligence in execution, poor workmanship, or unsatisfactory performance of the work;
- d. Abandonment of the work or substantial suspension of work for a period exceeding thirty (30) days without authorization;
- e. Failure to proceed with due diligence or inability to achieve specified targets or milestones;
- f. Breach or persistent non-performance of any terms, conditions, or provisions of the Contract;
- g. Violation of safety rules, including repeated safety breaches (more than three instances), or non-compliance with statutory or labour laws;
- h. Any major deviation from contractual requirements, including quality standards;
- i. Any change in the constitution or organization of the Contractor detrimental to GIPCL's interests;
- j. Any distress, execution, or legal process against the Contractor's assets;
- k. Insolvency, bankruptcy, or death of the Contractor;
- l. Offering or giving any inducement, commission, or gratification to any employee or representative of GIPCL;
- m. Assignment or transfer of the Contract without prior written consent of GIPCL.

In the event that the Contractor, upon receipt of written notice from GIPCL and/or the Engineer requiring compliance with contractual obligations, fails to remedy such default within seven (07) days, GIPCL shall be entitled to engage alternate agency/agencies to execute the work. All associated costs, including ten percent (10%) overhead charges, shall be recoverable from the Contractor as a debt or may be deducted from any amounts due or payable under this or any other contract.

GIPCL reserves the right to terminate the Contract without assigning any reason by giving fifteen (15) days' written notice. Upon such termination, GIPCL shall be entitled to recover any pending costs, damages, or losses and to forfeit the Performance Bank Guarantee and/or Security Deposit, as applicable.

The decision of GIPCL regarding termination and the reasons stated in the notice of termination shall be final and binding upon the Contractor.

The Contractor shall be afforded a reasonable opportunity to remedy the default within the stipulated notice period prior to the exercise of such rights by GIPCL. The reasons stated in the notice of termination shall be final and binding upon the Contractor.



### **21. Rights to Data**

GIPCL shall retain all right, title and interest in and to any and all data, entered or generated by successful bidder for GIPCL pursuant to the work order and any modifications thereto or works derived there from.

### **22. Assignment**

Successful bidder shall not assign, in whole or in part, their rights and obligations under the Contract to any third party, except with prior written consent of the other party.

### **23. Indemnification**

Successful bidder shall indemnify GIPCL against the all actions, suits, claims, damages and demands brought or made against GIPCL in respect of anything done or omitted to be done by successful bidder in the execution of or in the connection with the work of the Contract and against lose or damage to GIPCL in consequences of any action or suit being brought against successful bidder anything done or omitted to be done in execution of the work under the contract.

It is further to be specified that, if any litigation pertaining to labour employed by successful bidder and if any direction or order issued by court at any point of time during the pendency of contract or thereafter, successful bidder shall comply with such direction. Successful bidder shall indemnify GIPCL against all consequences arising and affecting GIPCL owing to the compliance of the court orders.

### **24. Public Holidays**

Successful bidder, i.e. the contractor shall be responsible for giving benefit to his employees, employed in whatsoever capacity, 09 Public/Paid holidays and the same shall be notified in advance and due communication thereof shall be made to the GIPCL Management.

### **25. Entire Contract**

The terms and conditions laid down in this RFP and all annexures, addendum thereto as also the bid and any annexes thereto shall be read in consonance with and form an integral part of the work order. Issued work order supersedes any prior contract, understanding or representation of the Parties on the subject matter.

### **26. Governing Law, Jurisdiction and Arbitration**

This tender document and contract shall be governed by the laws of India and the Courts at **Vadodara** shall have jurisdiction regarding the same.



1. Any dispute, controversy, or difference arising out of or in connection with this Contract, including but not limited to its validity, interpretation, implementation, material breach, or termination, shall, as far as possible, be resolved amicably between the Parties through mutual discussions and/or conciliation in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time. In the event that the Parties are unable to resolve the dispute amicably within a period of thirty (30) days from the commencement of such discussions, either Party may, by giving a written notice of thirty (30) days to the other Party, refer the dispute to arbitration. All such disputes shall be finally resolved by arbitration conducted by a Sole Arbitrator to be appointed by the Managing Director of GIPCL. The arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time. The seat and venue of arbitration shall be at Vadodara or Surat, or any other place within the State of Gujarat as may be decided by GIPCL. The language of arbitration shall be English.
2. Work under the contract shall be continued by the contractor during arbitration proceedings unless GIPCL shall order suspension thereof or any part thereof in writing or unless the matter in such work cannot possibly be continued unless the decision of the Arbitration proceedings is obtained.
3. The Arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment in lieu thereof.
4. The Arbitration proceedings shall be held in **Vadodara, Gujarat, India.**
5. The proceedings of Arbitration shall be in **English language.**
6. Subject Clause 26.1, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, at any time in connection with construction, meaning, operation, effect, interpretation or out of the contract or breach thereof the same shall be decided by an Arbitral Tribunal consisting of three Arbitrators. Each party shall appoint one Arbitrator and the Arbitrator appointed shall appoint the third Arbitrator who will act as Presiding Arbitrator. However, if both the parties agree; sole arbitrator can also be appointed.
7. If any of the Arbitrators so appointed dies, resigns, incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the concerned party / arbitrator to appoint another person in his/her place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left if both parties consent for the same, otherwise, he shall proceed de novo.
8. It is a term of the contract that the party invoking arbitration shall specify all disputes to be referred to arbitration at the time of invocation of arbitration and not thereafter.
9. It is also a term of the contract that neither party to the contract shall be entitled for any interest on the amount of the award.
10. The Arbitral Tribunal shall give reasoned award and the same shall be final, conclusive and binding on the parties.
11. The fees of the arbitrator shall be borne by the parties nominating them and the fee of the Presiding Arbitrator, costs and other expenses incidental to the arbitration proceedings shall be borne equally by the parties provided that in case, sole arbitrator is appointed; costs and other expenses incidental to the arbitration proceedings shall be borne equally by the parties.



12. Subject to the arbitration agreement as mentioned above, both GIPCL and successful bidder submit to exclusive jurisdiction of courts at **Vadodara, Gujarat** in relation to any matter arising out of the work order and the work order shall be governed by the substantive laws of India.

### **27. Force Majeure**

Force Majeure shall mean any event or circumstance which is insurmountable, beyond the reasonable control of the affected Party, and not foreseeable, which renders the performance of obligations under the Contract impossible or impracticable. Such events shall include, but shall not be limited to, acts of God, epidemic/pandemic, landslide, lightning, earthquake, flood, fire, explosion, major storm (including hurricane, typhoon, cyclone, etc.), tidal wave, war (declared or undeclared), acts of public enemy, riots, terrorism, strikes (only if officially declared/recognized), quarantine restrictions, government actions, embargo, blockade, public disorder, sabotage, or any other similar events beyond the control of the parties.

The performance of obligations under this Contract may be suspended, without incurring any penalty, during the continuance of a Force Majeure event, subject to mutual agreement between the Parties.

However, Force Majeure shall not include the following occurrences:

- a. Delay in performance due to unavailability of materials, equipment, or similar resources;
- b. Financial distress, hardship, or inability to make profit by the successful bidder;
- c. Failure to perform obligations due to breakdown, non-performance, or unsatisfactory performance of equipment or causes within the control of the successful bidder;
- d. Weather conditions reasonably expected based on the climatic conditions of the project location.

The affected Party shall notify the other Party in writing within fifteen (15) days of the occurrence of such event, providing details of the Force Majeure condition and its impact. Upon such notification, the obligations of the affected Party shall be suspended for the duration of the Force Majeure event, subject to mutual consultation.

The successful bidder shall not be liable for any delay or failure in performance of its obligations to the extent such delay or failure is caused by a Force Majeure event.

If a Force Majeure event continues for a period of thirty (30) days or more, GIPCL shall have the right to terminate the Work Order without any further liability. However, the successful bidder shall be entitled to payment for all services satisfactorily performed up to the date of termination.

### **28. Inspection**

Successful bidder shall:

- Assist GIPCL's nominated/delegated authority including to Revenue Authorities and Certifying Authorities without limitation to allow, inspect, assess, supervise operation of supplied and installed system/solution at GIPCL's locations covered in project and other



arrangements to ensure effectiveness, after giving prior notice of **07 (Seven) days** in writing or by way of surprise check. If any malfunctioning or deficient operation is reported and GIPCL or State Government or any nominated/delegated authority is of opinion to correct the same then successful bidder has to rectify the same as per provided guidelines without additional cost implication.

- Provide all assistance related to inspect, supervise and assess to GIPCL's nominated/delegated authorities.
- Allow and assist inspection at intervals as mutually decided between GIPCL and successful bidder.

### **29. Fraud and Corruption**

In pursuance of this tender, GIPCL,

i. Defines, for purposes of this provision, terms set forth as follows:

- a. "Corrupt practice" means offering, giving, receiving or soliciting of anything of value to influence action of GIPCL or its official by any personnel of bidder in procurement process or in contract execution.
- b. "Fraudulent practice" means a misrepresentation of facts, in order to influence a procurement process or execution of a contract, to detriment of GIPCL and includes collusive practices among bidders (prior to or after Proposal submission) designed to establish bids at artificially high or non-competitive levels and to deprive GIPCL of the benefits of free and open competition;
- c. "Unfair trade practices" means supply of goods or services different from what is quoted/ordered on.
- d. "Coercive practices" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in execution of contract.

ii. GIPCL will reject a proposal for award or terminate contract, if it determines that bidder recommended for award has engaged in corrupt, fraudulent, unfair trade practices or coercive practices.

iii. GIPCL shall declare a bidder ineligible, either indefinitely or for a stated period of time, for awarding contract, if it at any time determines that bidder has engaged in corrupt, fraudulent, unfair trade and coercive practices in competing for or in executing contract and will terminate the contract.

### **30. Negotiation**

It is absolutely essential for bidders to quote the lowest price in their bid for their own interest. GIPCL, however, may shall have discretion to enter into any price negotiations.

### **31. Award of Contract**

GIPCL reserves right to accept or reject any bid, and to annul bidding process and reject all bids at any time before contract award without thereby incurring any liability to affected bidder or bidders.



### **32. Contact Details**

All inquiries concerning this tender shall to be addressed to following:

#### **General Manager (Materials & Contracts)**

Gujarat Industries Power Company Limited

P.O.-Ranoli- 391350,

Dist.: - Vadodara Gujarat, India.

E-mail: [bshah@gipcl.com](mailto:bshah@gipcl.com); [krmishra@gipcl.com](mailto:krmishra@gipcl.com)

Prospective bidders are specifically directed NOT to contact any other person apart from one mentioned above in this tender document for meetings, conferences or technical discussions that are related to bid document. Unauthorized contact may / shall result for immediate rejection of bidder's bid document response. Substantive questions shall be dealt with in writing.

Prospective bidders are strictly advised to refrain from contacting GIPCL or and / or his employees/representatives directly or indirectly by any means related to the subject tender. The violation of same would entitle disqualification of bidders from tender process and exclusion from future business dealings.

### **33. Intellectual Property Rights and Rights to Integrated Application System.**

GIPCL shall retain all right, title and interest in and to any and all software, firmware and hardware procured designed and developed for GIPCL by successful bidder pursuant to this project and any modifications thereto or works derived there from. Successful bidder shall have no right, title or interest in or to such designs, programs, modifications for any purpose except right to use, modify, enhance and operate such designs, programs, modifications in order to perform services hereunder, as may be expressly set forth herein or in a separate written agreement executed between GIPCL and successful bidder.

If any of successful bidder's property used in the Contract is / are covered by a patent in respect of which successful bidder is not licensed, the successful bidder shall, before using such property, obtain such license(s) and pay such royalty(ies) and license fee(s) as may be necessary. Successful bidder shall keep the GIPCL indemnified from/against any and all claims that GIPCL suffers / may suffer as a result of any infringement or alleged infringement of any patent, registered design, trademark, copy right or other intellectual property right registered or otherwise by reason of claims whatsoever brought or made against the GIPCL on the basis of any patent or infringement thereof at the risk and cost of successful bidder.

The terms software, software programs and programs shall include specifications, documentation, technical information, all corrections, modifications, additions, improvements and enhancements to any of foregoing provided to GIPCL by successful bidder pursuant to this project. The terms firmware and hardware shall include the designs, drawings, specifications, custom designed electronic devices, documentation and technical information, all corrections, modifications, additions, improvements and enhancements to any of foregoing provided to GIPCL by successful bidder pursuant to this project.



### **34. Interpretation of Clause**

In case of disputes as regards interpretation of any of the clauses or specification, the decision of Head of Management (HOM)-GIPCL will be final and binding on the supplier.

### **35. Employee's Compensation Insurance**

Successful bidder shall take all risk Insurance Policy to cover all his workmen/employees, staff applicable under the Employee Compensation Act 1923 or any amendment thereof as also insurance cover for third party liability. Successful bidder shall keep the GIPCL indemnified from all liabilities arising out of his action in pursuance of this contract. The E. C. Policy should be obtained from Vadodara/Surat Jurisdiction (as per work location) and shall be assigned to GIPCL. EC policy should cover the specified contract period. Successful bidder shall also obtain additional off-duty coverage insurance policy for all his workers.

### **36. Statutory Requirements**

#### **a. Compliance of Labour Laws**

Successful bidder shall at his own cost comply with the provision of labour laws, rules, orders and notifications whether central or state or local as applicable to him or to this contract from time to time. These Acts/Rules include without limitation of the followings.

**41.1.** Successful bidder shall be solely responsible and shall fully comply with all the provisions of all the labour laws applicable such as the Minimum Wages Act, 1948, Contract Labour (Regulation & Abolition) Act 1970, Factories Act, 1948, Payment of Bonus Act 1965, Employees Provident Fund and Miscellaneous Provision Act 1952, Industrial Dispute Act 1947, Workmen Compensation Act 1923, Payment of Gratuity 1972, Interstate Migrant Workmen Act 1979, Equal Remuneration Act with Rules, Order and Notifications issued/made there under from time to time.

**41.2.** All other Acts, Rules/Bye-Laws, Orders, Notifications etc. present or future applicable to the successful bidder from time to time for performing the contract job.

**41.2.1.** Successful bidder shall provide and be responsible for payment of wages, salaries, Bonus, Social charges, Insurance, Food, Accommodation, Transport, Medical and Canteen facilities and other statutory privileges and facilities to his personnel as per law/rules/regulations and orders of the Central Government, State Government, Local Authorities or other authorities as are in force from time to time. All employees of successful bidder shall be employee of successful bidder.

**41.2.2.** Successful bidder shall have a valid license obtained from Licensing Authority under the Contract Labour (Regulation & Abolition) Act-1970 at the time of



execution of the contract covering all his employees working at GIPCL's Location and furnish the same failing which GIPCL may terminate the contract at its sole discretion.

- 41.2.3. The Successful Bidder shall, at the time of execution of the Contract, possess and maintain a valid Employees' Provident Fund (EPF) Code Number obtained from the competent authority under the Employees' Provident Funds and Miscellaneous Provisions Act, 1972, and shall ensure timely remittance of provident fund contributions in respect of all employees deployed at GIPCL's location to the concerned Provident Fund authorities on a monthly basis. The EPF registration shall mandatorily pertain to the Gujarat region, and the Bidder shall have a separate EPF code number in the name of the firm duly registered with the Regional Provident Fund Commissioner. In the event of any failure or default in compliance with the aforesaid statutory obligations, GIPCL shall have the right to recover the applicable dues along with any statutory liabilities from any amounts payable or outstanding to the Successful Bidder.
- 41.2.4. Successful bidder shall maintain all records/registers required to be maintained by him under various labour laws mentioned above and produce the same before the Statutory Authorities whenever required.
- 41.2.5. Successful bidder shall also submit periodical reports/returns to the various statutory authorities such as the Contract Labour (Regulation & Abolition) Act-1970, Employees Provident Fund Act etc. under intimation to HR & Admin Department.
- 41.2.6. Successful bidder shall not pay less than the Minimum Wages notified by the Government from time to time to his employees of corresponding categories.
- 41.2.7. Successful bidder shall be responsible for payment of overtime wages to his workmen, if any, in case they are required to work beyond the prescribed hours under law as per applicable rates.
- 41.2.8. Successful bidder shall take Workmen Compensation Insurance Policy for all his employees working at GIPCL Location. Successful bidder shall indemnify the company against any liability due to any work injury or accident to any of its employees.
- 41.2.9. Successful bidder shall in the event any of his workmen/employee sustains any injury or disablement due to an accident arising out of and in the course of his employment, provide necessary medical treatment and pay compensation as applicable, required under the Workmen's Compensation Act, 1923.
- 41.2.10. If any of the persons engaged by successful bidder misbehave with any of the officials or the GIPCL or commit any misconduct with regard to the property of GIPCL or suffer from any serious communicable disease, successful bidder shall replace them immediately.
- 41.2.11. Successful bidder shall not engage/employ persons below the age of 18 years. Employment of women shall be strictly according to applicable laws.
- 41.2.12. GIPCL will have right to deduct and disburse the claims of the individual/parties being a principal employer on any account whatsoever in



relation to their employment with successful bidder. The Security deposit will be released to successful bidder at the end of the contractual tenure subject to an undertaking by successful bidder that in the event any of his workmen or the heirs of workmen puts up a claim for recovery of money due to him from successful bidder before the appropriate authority under the I.D.Act 1947 or under any other labour laws or for compensation under the Workmen's Compensation Act, 1923 and the appropriate authority has given a direction for making payment, successful bidder will meet the same or indemnify GIPCL if in the event GIPCL pays it as Principal Employer.

- 41.2.13. Successful bidder shall make payment of wages to his employees on fixed date within the period specified under the applicable Law, in presence of representative of GIPCL. Successful bidder will submit a true copy of wage sheet, attendance register and P.F. remitted challans on monthly basis to HR&A department for verification and record.
- 41.2.14. Successful bidder shall provide Safety items/kits to his employees such as safety shoes, goggles, ear plugs, hand gloves, safety belts etc., if any, required under the law.
- 41.2.15. Successful bidder shall conduct pre-induction and periodic medical checkup of his workmen as per applicable laws.
- 41.2.16. Successful bidder shall be solely responsible for any accident caused to his workers and should adhere to all rules/regulations as per labour laws of Government and other statutory laws as applicable.
- 41.2.17. Successful bidder should register himself under the Contract Labour Act, Employee Compensation Act and PF Act (Code no. to be mentioned) and submit the copy of registration certificate and should possess the same from the date of commencement of work, failing which the contract is liable to be cancelled. The E.C. Policy copy should be submitted to GIPCL before commencement of the work and Labour License should be obtained within one week from the date of issue of form-V. Successful bidder should apply for Form-V immediately after receipt of Work Order. A copy of Labour License shall be submitted to GIPCL's HR & Admin Department.
- 41.2.18. Successful bidder shall have to insure his workmen /supervisors etc. under Group Insurance scheme.
- 41.2.19. Successful bidder shall be responsible for compliance of all statutory rules, regulation, act enforced from time framed by the government such as Factory Act, Employee Compensation Act, payment of 'Wages Act', Minimum Wages Act', Provident Fund Act, All Labour Laws Act in respect of employees engaged by him for the work and shall have to maintain necessary records. In case any amount becomes due to be payable by successful bidder to his employees or to the Government under the above rules, regulation, Acts, GIPCL reserves the right to recover the same from the running bill of the contract.



- 41.2.20. Documentary evidence of deposit of PF paid shall have to be produced by successful bidder along with the next bill.
- 41.2.21. Records as per the provisions of various statutory Acts will have to be maintained by successful bidder and submitted as and when required.
- 41.2.22. All employees of successful bidder should maintain due discipline and respect local sentiments. GIPCL reserves the right to direct the contractor to remove any such person who does not comply with it.
- 41.2.23. The list is indicative in nature and not an exhaustive one. Any amendment/alteration/Notifications or addition to the existing Law or a new statute shall automatically and immediately become applicable.
- 41.2.24. **Annual Health Check Up:** - As per statutory requirement, Contractor has to inform workmen deployed at site for annual health checkup as per the schedule prepared by GIPCL's HR & Admin department.

**b. Legal Aspects**

1. Successful bidder shall maintain all register required under the Labour Laws and make the payment as per the Minimum Wages Act to the workers employed by him.
2. Successful bidder shall obtain requisite license to carry out this contract under the provisions of Contract Labour Act, 1970 and maintain necessary records and registers under the said Act.
3. Successful bidder shall submit a copy of each of the registration certificates with respect to Employees Provident Fund and Employee Compensation Act within one week time, from the date of award of this contract.
4. Successful bidder's employees, agent or sub-agent shall not smoke or light anything within the GIPCL Location premises and carry match box / lighter or any other explosive and /or inflammable material inside the plant.
5. Successful bidder shall abide by all the statutory rules and regulations like P.F, Labour Laws etc.
6. Successful bidder shall issue an appointment order to each casual labourer stating therein the nature of job to be performed by him and fix time for which the concerned labours are likely to be deployed. Successful bidder shall also issue a temporary identity card specifying the period for which the labourer has been deployed.
7. Successful bidder is fully liable for the persons engaged by him for above work; however, GIPCL reserves the right to deduct any amount legally justified towards any liability not fulfilled.
8. Successful bidder shall indemnify GIPCL from any liabilities arising out of the employment of the manpower.
9. If successful bidder fails to complete the allocated job within specified time frame, GIPCL shall get the work done by third party at the risk and cost of successful bidder.



### **37. Payment of Wages**

Successful bidder shall be responsible for compliance of all statutory rules, regulation, act enforced from time framed by the government such as Factory Act, Employee Compensation Act, payment of 'Wages Act', Minimum Wages Act', Provident Fund Act, Payment of Bonus Act, Labour Law Act, maternity benefit act in respect of employees engaged by him for the work and shall have to maintain necessary records. In case any amount becomes due to be payable by him to his employees or to the Government under the above rules, regulation, Acts.

### **38. Accident To Workmen**

Successful bidder shall be fully responsible for injury or death of any of your or third-party workmen due to any act omission/indiscretion on your part while undertaking the work and successful bidder shall fully abide by the statutory requirements of the employee's compensation act. GIPCL shall not be liable for any compensation due to accident, death or injury to any of successful bidder's workmen or any third party due to negligence, act or omission on your part.

### **39. Benefit payable in case of Accident Occurring outside premises OR beyond the course of Employment**

Successful bidder shall provide an insurance coverage (Medical + Death Benefit) for sum of Rs. 01/-Lakh to all his workmen/ labour deployed at GIPCL Location for the accident taking place anywhere outside the GIPCL Location premises or at any place when the workman is not in course of his employment.

### **40. Safety Aspect**

Successful bidder shall observe all the safety and security rules and regulation of GIPCL which are at present in force and which may come into force during the pendency of the contract. Any violation of any rules and regulations will entail immediate termination of the contract. When successful bidder moves his lifting tools and tackles to the plant area, required test certificates as per the Factory Act 1948 and the state factories rules has to be submitted to GIPCL's safety Department. Safety Department will check the certificates and if found okay, then only materials will be allowed to enter inside the plant. Material inward gate pass will be made only after certification from Safety Department. Security Department will inform to Safety Department, as & when such tools and tackles brought at the gate for making entry in the maintenance site. Successful bidder has to submit the list of required safety gears along with safety equipment available with him to safety Department. Safety Department will check for quantity and quality of the safety gears and then allowed permission of work. Poor quality material will not be allowed to take inside the Plant. If quantity of required safety equipment is not satisfactory, successful bidder will not be allowed to carry out the work using such safety gears inside the GIPCL Location for the work.

### **41. Rejection of Work:**

If, as a result of inspection, examination or testing, GIPCL's Representative/Engineer decides that any materials, work or workmanship is defective or otherwise not in accordance with the contract, GIPCL's Engineer / Representative may reject such plant, materials, work or workmanship and shall notify successful bidder promptly, stating his reasons. The successful bidder shall then



promptly make good the defect and ensure that the rejected item complies with the contract. If successful bidder failed to rectify the rejected work or workmanship, GIPCL's Engineer/ Representative reserves the right to deduct or withhold amount against rejected work or Workmanship. Successful bidder shall not entitle for any claim or release of hold payment until rectify the defect up to satisfactory of GIPCL. If successful bidder failed to rectify any such defective work or workmanship, GIPCL reserves the right to rectify at risk and cost of successful bidder and deducted by GIPCL from any amount due, or to become due, to successful bidder's dues.

If GIPCL's Engineer / Representative requires such materials, work or workmanship to be retested, the tests shall be repeated under the same terms and conditions. If such rejection and retesting cause GIPCL additional costs for the traveling and lodging costs of GIPCL's Engineer/Representative for attending the retest, such costs shall be recoverable from the successful bidder by GIPCL and may be deducted by GIPCL from any amount due, or to become due, to successful bidder.

#### **42. Other Terms and Conditions:**

- a. All tools & tackles, labours, equipment, vehicles etc. to execute the contract are in the scope of successful bidder. Successful bidder should ensure that tools & equipment are in healthy condition.
- b. The decision of GIPCL shall be final and binding on successful bidder for defining the terms and condition included in this contract.
- c. If the work is not found satisfactory, GIPCL reserves the right to take suitable action.
- d. Successful bidder shall strictly follow the existing work permit system of GIPCL and any future revisions.
- e. Successful bidder has to take EC insurance policy for their workmen. Successful bidder has to submit labour license and PF account number to GIPCL before start the work.
- f. Timely completion of all jobs and works shall be the essence of this project. Successful bidder should closely monitor each activity and complete the jobs as per the time given by and under the supervision of GIPCL and shall ensure that sufficient manpower is deployed for the same.
- g. GIPCL is an ISO 9001, ISO 14001, OHSAS 18001 & ISO 50001:2011 (EnMS) certified company, and GIPCL gives extreme importance to maintain these global standards. Successful bidder shall be required to observe these standards while working with GIPCL. Successful bidder should ensure that his workmen/labour work in accordance with them.
- h. GIPCL shall not be liable to provide local transportation.
- i. GIPCL will not provide logging, boarding or any other pocket allowance.

#### **43. Removal of all offensive matter immediately and clean-up**

All loose materials, wastage, packing materials, cut pieces or other matter of an offensive nature shall not be deposited on the surface, but shall at once be carted away by successful bidder to some pit or place provided by him away from the site of work and approved by local authorities. As a part of the work included in this contract, successful bidder shall completely remove and satisfactorily dispose of all temporary works to the extent directed. He shall tear down and dispose of all temporary works, shall remove or grade, to the extent directed, all plant and equipment, shall



satisfactorily dispose of all rubbish resulting from the operations under this contract and shall do all work necessary to restore the territory embraced within the site of his operations to at least as good order and conditions as at the beginning of the work under this contract.

#### **44. Recovery Clause**

- (i) In case of any damage of equipment/machinery due to negligence of contractor or any other reasons attributed to contractor the decision of GIPCL regarding the amount of recovery shall be final and binding subject to a maximum of 10% of contract value. Recovery will be affected from the monthly bills and/or retention money/security deposit.
- (ii) If the contractor fails to execute the work as per directions of GIPCL within the time frame given in work order and as per day-to-day instructions by GIPCL, GIPCL shall get the work done by third party at the risk & cost of the contractor with 10% additional overhead charges of GIPCL.

#### **45. Facilities to be provided by GIPCL**

GIPCL shall provide the following facilities to successful bidder at GIPCL's location:

- a. Electricity & water at nearest available one point. Further distribution to be done by successful bidder at their cost.
- b. First aid facilities as available on chargeable basis.
- c. GIPCL may provide accommodation at township on chargeable basis, subject to its availability.

Apart from the above, no other facilities shall be provided by GIPCL.

#### **46. Insurance**

##### **i) General**

Successful bidder shall at his own expense arrange, secure, and maintain with reputable insurance companies to the satisfaction of the GIPCL as follows:

- Successful bidder at his cost shall arrange, secure and maintain insurance as may be necessary and to its full value for all such amounts to protect the works progress from time to time and the interest of GIPCL against all risks as detailed herein. The form and other limit of such insurance, as defined herein together with the under works thereof in each case should be as acceptable to GIPCL. However, irrespective of acceptance of the works, the responsibility to maintain adequate insurance coverage at all times during the period, of contract shall be that of successful bidder alone. The successful bidder's failure in this regard shall not relieve of any of his responsibilities and obligations under this contract.
- Successful bidder shall provide the GIPCL with a copy of all insurance policies and document taken out by him in pursuance of the contract. Successful bidder shall also inform the GIPCL at least sixty days in advance regarding expiry or changes in such documents.

##### **ii) Employees State Insurance Act:**



- Successful bidder agrees to and does hereby accept full and exclusive liability for the compliance with all obligations imposed by the Employee's State Insurance Act 1948. Successful bidder further agrees to defend, indemnify and hold GIPCL harmless for any liability or penalty which may be imposed by the central, state or local authority by reason of any asserted violation by the successful bidder or any sub-contractor of the Employees State Insurance Act 1948, and also from all claims suited or proceeding that may be brought against the GIPCL arising under, growing out of or by reasons of the work provided for by the successful bidder whether brought by employees of the successful bidder, by third parties or central or state Government authority or any political sub-division thereof.
- Successful bidder agrees to fill in with the employee state insurance corporation, the declaration forms, and all forms which may require in respect of successful bidder or any sub-contractor's employee, who are employed in the work provided for or those covered by ESI from time to time under agreement. Successful bidder shall deduct and secure the agreement of the sub- contractor to deduct the employees' contribution as per first schedule of the ESI act.

**iii) Workmen's Compensation and Employer's Liability Insurance:**

- Insurance shall be affected for successful bidder's all employees engaged in the performance of this project. If any of work is sublet, successful bidder shall require the sub-contractor to provide workmen's compensation and employer's liability insurance for the latter's employees if such employees are not covered under successful bidder's insurance.
- Successful bidder shall take all risk Insurance policies to cover his workmen, staff applicable under the Employee Compensation Act 1923 or any amendment thereof also insurance cover for third party liability. Successful bidder shall keep the GIPCL indemnified from all liabilities arising out of his action in pursuance of this project. Workmen's Compensation Policy should be obtained from Surat Jurisdiction and shall be assigned to GIPCL. Successful bidder shall also obtain additional off-duty coverage insurance policy for all his workers.

**iv) Any other insurance**

Successful bidder shall also carry any and all other insurance, which he may be required under any law or regulation from time to time without any extra cost to GIPCL.

**v) Accident or injury to workmen**

GIPCL shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequences of any accident or injury to any workmen or other person engaged by successful bidder or Technology Partner or any sub-contractor or sub Technology Partner.

**vi) Transit insurance**



In respect of all items are to be transported by successful bidder to the site of work, cost of transit insurance shall be borne by successful bidder and quoted price shall be inclusive of this cost.

#### **47. Safety Norms to be Observed**

Successful bidder shall observe and comply with regard to his workmen working at GIPCL's Location, the safety norms as per the safety operating standards. Successful bidder shall be solely responsible for any accident caused to his workers and should adhere to all rules/regulations as per labour laws of Government and other statutory laws as applicable. Successful bidder shall be responsible for providing first aid or emergency medical help and treatment to his workmen in the event of any accident or injury.

It is responsibility of successful bidder to ensure that his workers are wearing required PPEs as per work requirement throughout the contract period. When it is to work on height where proper footrest is not provided or working on ceiling or roof covered with fragile materials, full body harness safety belt, ladders and crawling boards shall be used to prevent fall of persons as per the work requirement. Further, during working on height, successful bidder will arrange proper scaffolding of steel pipes as per the relevant standards. He shall further arrange for safety net, full body safety belt, fall arrestor system etc. Advise and instructions of GIPCL's local authority has to comply strictly in this regard. All necessary safety precautions shall be taken by the successful bidder to prevent accident and personnel injuries while working at height. Successful bidder shall obey and follow all the safety and security rules & regulations present in forth and other rules/instructions/notices etc. come from time to time. Any successful bidder's manpower repeatedly found violating safety rules like not wearing of the PPEs etc. successful bidder shall take disciplinary action as directed by GIPCL.

In case of any damage of equipment/machinery due to negligence of successful bidder's manpower or any other reasons attributed to successful bidder solely, the decision of GIPCL regarding the amount of recovery shall be final and binding subject to a maximum of 10% of contract value. Recovery will be affected from the forthcoming bills and/or from security deposit.

#### **48. Third Party Inspection**

Successful bidder shall assist and support GIPCL or its nominated/delegated third party/authority to inspect, supervise and assess all the equipment/solution installed at GIPCL premises and other infrastructure arrangements.

#### **49. Training**

Successful bidder has to provide training to end users of GIPCL for entire working of upgraded/revamped system. Successful bidder has to appoint proper training staff post project Go-Live. The training may be given in two or three batches if required where the detailed training of entire installed system and its working procedures, precautions considered to handle whole installed system, operation, maintenance, service etc. has to be explained. The infrastructure pertaining to



training like room, sitting arrangements, projector/display, IT environment, table & chairs etc. shall be provided by GIPCL.

Successful bidder also has to prepare user-friendly training manual for all training staff (who is taking training) with proper user-friendly language (English/Hindi as well as Gujarati) with proper screen shots and pictures to explain working and methodology of system.

#### **50. Confidential Policy**

All information and other materials disclosed, furnished, communicated or supplied by the GIPCL to successful bidder, including successful bidder's directors, officers, employees, affiliates, or its expressly authorized representatives or agents are strictly confidential and shall not be divulged by receiving party to any third party during the term of contract or thereafter without GIPCL's prior written consent.

For avoidance of doubt, "Confidential Information" shall be deemed to include all information including but not limited to any technical, price and financial information, improvement, inventions, know how, innovations, technology, trade secrets, professional secrets, copyrights and any other intellectual property, discoveries, ideas, concepts, papers, software in various stages of development, techniques, models, data, source code, object code, documentation, manuals, flow charts, research, process, procedures, functions, GIPCL's customer names and other information related to GIPCL's customers, price lists and pricing policies. However, the both Parties hereto acknowledge that Confidential Information shall not include any information that: -

- a) is now or subsequently becomes publicly known or available without breach of contract;
- b) was previously in the possession of successful bidder without any obligation of confidentiality and which was not acquired from, provided, given, sold or otherwise disclosed (directly or indirectly) by GIPCL not through contract.

Successful bidder further agrees to require its employees, its sub-contractors and their employees to execute an appropriate non-disclosure letter/agreement prior to performing any work under the issued work order and ensure that only such authorized representatives who are expressly authorized and whose duties require them to possess the Confidential Information shall have access to the Confidential Information on a need-to-know basis.

Save as expressly provided hereunder, nothing contained herein shall be construed, implicitly or otherwise, as being the granting of a license to use the Confidential Information disclosed by GIPCL. Successful bidder shall ensure that the Confidential Information will not be copied or reproduced or transmitted by any means and in any form whatsoever (including in an externally accessible computer or electronic information retrieval system) by successful bidder or its representatives without the prior written permission of GIPCL.

Successful bidder has to follow all rules and regulations of guidelines and has to follow strictly to all rules and privacy. Some of the guidelines are as follows, however it is not limiting to the same.



It is responsibility of successful bidder to contact GIPCL authority and get all guidelines to carry out work in GIPCL premises.

1. All paper works prepared to the project are very confidential property of GIPCL authority. If required, successful bidder has to submit privacy agreement with GIPCL as per mutually agreed format. All responsibility lies with successful bidder of privacy of documents handed over to him for execution.
2. The staff of successful bidder should not involve with any activity related to GIPCL.
3. No activity is allowed in GIPCL premises by any staff of successful bidder that affects to GIPCL's security and peace.

### **51. Limitation of Liability**

Final payment by GIPCL in pursuance of tender terms shall not mean release of successful bidder from all his liabilities under the contract. Successful bidder shall be liable and committed under the contract to fulfil all his liabilities and responsibilities, till such time Security Deposit Guarantee is released by GIPCL. Provided that successful bidder shall continue to remain responsible for all liabilities limited to 1x of the contract value which arise on account of Gross Negligence, Willful Misconduct, breach or fraud, legal noncompliance even beyond release of Security Deposit.

Successful bidder shall continue to remain responsible for all liabilities which arise on account off,

1. Any obligation of successful bidder for performance/warranty/defect liability, or
2. Any obligation of successful bidder to indemnify GIPCL with respect to infringement of intellectual property rights, or
3. Failure of successful bidder to pay taxes, duties as required under this tender/Contract.
4. Breach of confidentiality requirements set forth in this bid or Applicable Law, or
5. In case of negligence, breach, fraud, Gross Negligence or Willful Misconduct of successful bidder.
6. Notwithstanding anything the total cumulative liability of the successful bidder to GIPCL, whether in contract, tort (including negligence), or otherwise, shall not exceed the total contract value of the project.

### **52. Data Security**

Successful bidder and its team have to maintain the confidentiality and security of data in true spirit. In no case, breach in security of data will be acceptable. Violation of this clause may lead to severe penalties including to the termination of contract as decided by GIPCL. In this regard, successful bidder has to sign Non-Disclosure Agreement (NDA) with GIPCL. It will be successful bidder's responsibility to get this agreement signed with the GIPCL.

### **53. Assignment and Subletting of the Contract**

Successful bidder shall not assign or sub-let any part of the contract to any other party or agency without written permission from GIPCL.



#### **54. Deductions From Contract Price**

Any costs, charges or expenses pertaining to this project / contract is incurred by GIPCL, for which, under the contract the contractor is liable to pay, shall be recovered by GIPCL. The contractor shall pay all such amount within 15 days of claim failing which the same shall be deducted from the bills of contractor.

#### **55. Failure & Termination**

If the contractor fails to comply written notice issued by GIPCL requiring compliance of any drawings and / or instructions within fifteen days, then GIPCL may employ the other agencies to execute any such work whatsoever as may be necessary and all costs incurred in connection therewith shall be recoverable from the contractor by GIPCL from the amount payable to the contractor or the Security Deposit laying with GIPCL.

In case if contractor's services are not found satisfactory with respect to time schedule given in the Contract, mobilization of time bound resources for execution of Contract including workmanship & safety (OHSAS policy of GIPCL) then GIPCL after giving adequate time of fifteen days advance notice in writing, has rights to terminate the contract at any time.

#### **56. Night/Sunday/Holiday Shift**

One support engineer shall require to stay on site at GIPCL nearby during warranty and CAMC tenure to provide support on 24x7x365 basis for any emergency job requirement. This arrangement should be at to meet any urgent / emergency requirement at night / Sunday / public holiday.

#### **57. Contractor's Supervision**

The contractor shall, during the whole time of work in progress, employ a qualified experienced site-in-charge of the work with adequate experience in handing such job with the prior approval of GIPCL. Such in-charge shall be constantly in attendance at the site during project completion / Go-Live stage. During project Go-Live stage, the contractor's supervisory engineer may require to stay beyond working hours, when it may be necessary to give directions, orders by GIPCL in writing. Any directions, instructions or notices given by GIPCL to him, shall be deemed to have been given to the contractor.



## SECTION E – COMMERCIAL TERMS AND CONDITIONS:

### 58. Security Deposit (SD)

Within Twenty-One (21) days of receipt of Work Order from GIPCL, successful bidder shall deposit Security Deposit **@10% of Project contract value (Price Bid Schedule A & B) excluding taxes (validity shall be 02 years from date of issue of Work Order) and then after successful completion of warrantee period, bidder shall submit PBG of 10% of Annual Contract Price for AMC valid for AMC period** as per format mentioned **Annexure XI** for due and faithful performance of contract. Security Deposit for project will be returned only after submission of PBG for AMC. Security Deposit is to be submitted in the form of either Demand Draft OR Bank Guarantee (BG) issued by banks as specified in clause of Schedule Tender Notice. BG shall be as per format mentioned in **Annexure XI** and in favor of **“Gujarat Industries Power Company Limited”** payable at **Vadodara**. If bidder fails to deposit Security Deposit within stipulated time which shall include any extension granted by GIPCL at its own discretion, GIPCL reserves right to cancel the issued work order in such event and forfeit EMD and exercise its right to accept any other bid which is considered suitable. It is expressly agreed and confirmed by successful bidder that furnished Security Deposit shall carry NIL interest. EMD submitted earlier by successful bidder shall be refunded against submission of Security Deposit.

During contract period, Security Deposit shall remain with GIPCL as security for satisfactory execution and completion of work in accordance with terms and conditions of Contract. GIPCL shall have an unqualified option to use Security Deposit amount there under in event of successful bidder failing to honor services / obligation as mentioned under terms & conditions & scope of Work and / or in respect of any other payout due from successful bidder. GIPCL shall be at liberty to deduct and appropriate amount from Security Deposit such losses, damages, penalties and dues as may be payable by successful bidder under contract and amount by which Security Deposit is reduced by such appropriation shall be made good by further deduction from bidder's subsequent interim bills until Security Deposit is restored to its full limit as mentioned in above clause.

On satisfactory performance and completion of contract, in all respects, and upon return of any property (including hardware & software licenses) belonging to GIPCL in good and running condition, security Deposit shall be returned to successful bidder.

On satisfactory completion of AMC period in all respects, and upon return of any property (including hardware & software licenses) belonging to GIPCL in good and running condition, performance BG for AMC period shall be returned to Contractor

If required, on intimation by GIPCL, successful bidder has to extend SD (in case of BG) for suggested time period (due to project execution delay attributed by either of party) & failure of



same will be treated as breach of contract which enables GIPCL to take appropriate actions in this regard like forfeiting of SD along with contract termination.

#### **59. Taxes & Duties**

1. Contractor shall bear and pay all taxes, duties, levies, cess and charges assessed on the contractor or their employees by all municipal, state or national government authorities in connection with the contract in and outside of country where site is located and no adjustment or variation will be allowed for changes thereof.
2. For purpose of Contract, it is agreed that Contract Price specified in work order is based on taxes, duties, levies and charges prevailing on date of bid submission in India and Gujarat where site is located (unless otherwise revised by mutual consent).
3. Contract Price shall be deemed to be firm and valid for entire duration of Contract till completion of scope of work under Contract unless it is due to change in tax law.
4. No variation shall be allowed on account of any taxes applicable outside India.
5. Billing can be done from Gujarat or anywhere in India.
6. Contractor shall issue proper Tax-invoice as stipulated under Goods & service tax (GST) legislation or any such other legislations as may be relevant from time to time.
7. Each party hereto, agrees to indemnify and keep indemnified and saved harmless at all times the other party against any loss, cost, expenses or damage suffered or incurred by it, by reason of its failure to pay taxes, duties, etc. which it is obliged to pay pursuant to provisions of this clause and / or arising out of its failure to comply with its obligations under this clause.

#### **60. Liquidated damages**

- 1) Successful bidder acknowledges that time is essence of Contract and in case of any delay in completion of project by successful bidder end; said delay shall cause substantial damage to owner. Successful bidder hereby agrees without prejudice to any other right or remedy available to GIPCL under Contract to pay liquidated damages at rates mentioned herein.

Successful bidder and GIPCL agrees that amount fixed as liquidated damages herein are reasonable and are a genuine pre-estimate of minimum loss and damage that GIPCL would suffer due to delay in completion by successful bidder end and successful bidder shall not question rate of liquidated damages in court of law or raise any question otherwise.

Successful bidder guarantees that it will complete the Project within time specified in **Clause of Project Schedule** or within such extended time as specified by GIPCL. Failure to achieve Completion of Project as per time schedule shall lead to application of **liquidated damages @0.5%** of total amount payable of Schedule A & B excluding taxes per week or part there of subject to a **maximum of 5%** of Total Contract Price. Once Maximum is reached, GIPCL shall have right to terminate the Contract, pursuant to **Clause of Termination of Contract** without prejudice to its rights for claiming further general damages under the law. GIPCL may without prejudice to any other method of recovery deduct the amount of such damages from any money in its hands due or which may become due to successful bidder under the Contract. However, payment of liquidated damages shall



not in any way relieve the successful bidder from any of its obligations, duties, and responsibilities to complete facilities or from any other obligations and liabilities of the successful bidder under Contract.

- 2) No bonus will be given for earlier completion of Project.



## **SECTION F – WARRANTY AND CAMC:**

### **61. Warranty Period**

There will be 01 year of warranty period of supplied goods and services at all locations mentioned in **Section R** commenced from the date of project's Go-Live declared by GIPCL. Onsite warranty shall be comprised of 01 year – service, support, spare parts, and labour. The bidder shall do and perform quarterly health check-up / preventive maintenance on regularly basis as part of warranty. Warranty is comprehensive (manpower & spare-parts) in nature, so it shall be responsibility of successful bidder to replace any supplied item OR its defective parts with same make & model (higher in case of model's discontinuation declared by OEM) without any additional cost. The defective part so replaced shall be property of successful bidder. Successful bidder shall keep enough spares at GIPCL location during warranty period and cost for spare-parts are to be borne by successful bidder. Successful bidder is expected to transfer deployed system / solution knowledge to GIPCL nominated Technical Team.

### **62. Comprehensive Annual Maintenance Contract (CAMC)**

It is mandatory for the bidder to quote for a comprehensive AMC, which shall become applicable immediately after the expiry of the 01-year warranty period. The total duration of the comprehensive **AMC shall be 04 years (mandatory)**, an optional for an additional two (02) years (6th and 7th year), commencing upon completion of the warranty period. On-site CAMC shall comprise 04 years of service, support, spare parts, and labour. The bidder shall carry out quarterly health check-ups / preventive maintenance as part of the CAMC. Since the AMC is comprehensive (including manpower and spare parts) in nature, it shall be the responsibility of the bidder to replace any defective parts with the same make and model (or higher, in case of discontinuation declared by the OEM) without any additional cost. The defective parts so replaced shall remain the property of the successful bidder. The successful bidder shall maintain adequate spare parts at the GIPCL location during the CAMC period, and the cost of such spare parts shall be borne by the successful bidder. However, any damage arising from unauthorized usage, use of hardware in contravention of defined guidelines, or any physical damage shall not be covered under the CAMC.



**SECTION G – PAYMENT TERMS & SLA:**

**63. Payment Terms, Schedule of Payment**

Successful bidder’s request(s) for payment shall be made to GIPCL in writing, accompanied by details of work executed, supported with evidence of accomplishment of the item-wise work.

| Milestone |  | % of quoted payment of the concerned Schedule |
|-----------|--|---|
| 1         | <b>Total Cost of Schedule A and B: Project Go-Live with a 1-year warranty period</b>   |   |
| 1.1       | On submission of AS-IS study and Blueprint for the project and after receipt of PBG  | 10%   |
| 1.2       | On delivery of the entire IT hardware, UHF long-range RFID readers, boom barriers, licensed software, etc. at the site location, and upon its verification and acceptance by GIPCL. In case the supply is executed in phases, payment for the supplied items shall be made in accordance with the respective deliveries completed, duly verified and accepted. Separate invoices may be raised for hardware components, software, and other supplied items, if applicable. | 30%   |
| 1.3       | On successful Installation, Testing and Go-Live of project.  | 30%   |
| 1.4       | On successful completion of the handholding support period.  | 20%   |
| 1.5       | Balance payment in Quarterly Arrears (i.e. 2.5% per quarter) during warranty period and after receipt of PBG for AMC   | 10%   |

**Note for Schedule A and B:** The total of the milestone-based payment for the above scope shall be equal to the price quoted by the successful bidder for Schedule A plus Schedule B, covering the hardware, software, and implementation and support services.

| Milestone  |  | % of quoted payment of year-wise CAMC |
|------------|--|---------------------------------------|
| <b>2.1</b> | <b>Total Cost of Schedule C: Comprehensive AMC of 04 years</b> |                                       |
|            | On a quarterly basis in Arrears                                |                                       |
| Year 1     | Quarter 1  | 25%                                   |
|            | Quarter 2  | 25%                                   |
|            | Quarter 3  | 25%                                   |
|            | Quarter 4  | 25%                                   |
|            | <b>Total Cost Comprehensive AMC of 01 years</b>                | <b>100%</b>                           |
| Year 2     | Quarter 1  | 25%                                   |
|            | Quarter 2  | 25%                                   |
|            | Quarter 3  | 25%                                   |
|            | Quarter 4  | 25%                                   |
|            | <b>Total Cost Comprehensive AMC of 02 years</b>                | <b>100%</b>                           |



|        |   |             |
|--------|---|-------------|
| Year 3 | Quarter 1                                       | 25%         |
|        | Quarter 2                                       | 25%         |
|        | Quarter 3                                       | 25%         |
|        | Quarter 4                                       | 25%         |
|        | <b>Total Cost Comprehensive AMC of 03 years</b> | <b>100%</b> |
| Year 4 | Quarter 1                                       | 25%         |
|        | Quarter 2                                       | 25%         |
|        | Quarter 3                                       | 25%         |
|        | Quarter 4                                       | 25%         |
|        | <b>Total Cost Comprehensive AMC of 04 years</b> | <b>100%</b> |

**Note for Schedule C:** The quarterly payment for CAMC shall be made in accordance with the respective year-wise CAMC amount quoted by the successful bidder for the respective year.

The CAMC for the 6th and 7th years shall be optional in nature. The CAMC from the 2nd year to the 5th year will be mandatory and shall be considered for evaluation purposes. The cost of CAMC for the 6th and 7th years shall not be considered for determination of the L1 bidder, as the same shall be treated as an additional and optional scope of work. Accordingly, it shall be at the discretion of the bidder to quote the CAMC charges for the 6th and 7th years. Such quoted rates, if provided, shall be considered only for purpose if GIPCL opts to extend the Comprehensive CAMC for further years.

**Note:**

- (1) While claiming payment of Milestone 1.1, the successful bidder has to submit a Tax-Invoice and two sets (1 – Original color and 1 – duplicate) of the approved AS-IS report to GIPCL, duly signed by the competent authority of both parties.
- (2) While claiming payment of Milestone 1.2, the successful bidder has to submit a Tax-Invoice, delivery challan / e-way bill of materials supplied along with its verifications & acceptance report duly signed by GIPCL's competent authority.
- (3) While claiming payment of Milestone 1.3, the successful bidder has to submit a Tax-Invoice along with the Project Go-Live certificate, duly signed by the GIPCL competent authority, along with the following documents:
  - ✓ As-implemented architecture diagram (in AutoCAD & PDF format)
  - ✓ Asset Register comprised of model, make & serial numbers
  - ✓ Warranty certificate (Back-to-back with OEM) for all components/systems installed under this project.
  - ✓ License documents for all components/systems (wherever applicable) installed under this Project.
  - ✓ All hardware and software components/products/licenses should be registered name of "Gujarat Industries Power Company Limited" location Surat.
- (4) While claiming payment of Milestone 1.4, the successful bidder has to submit a Tax-Invoice along with the successful completion of the stabilization period certificate duly signed by the GIPCL competent authority.



(5) For quarterly payment release of 1.5 & 2.1, the successful bidder has to submit the system quarterly uptime report, preventive maintenance report and service call reports of the concerned quarter, duly signed by GIPCL's designated authority.

#### 64. Service Level Agreement

- The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service which shall be provided by successful bidder to the GIPCL for the duration of this contract period of project.
- All the payments related to the warranty, CAMC period to successful bidder are linked to the compliance with the SLA metrics specified in this document.
- The project Service Level Agreement are proposed to be performance based. For purposes of Service Level Agreement, the definitions and terms as specified along with the following term shall have the meanings set forth below.

- **Maximum Time to Repair (MTTR):**

After a service request call / e-mail / fax is made or letter is written by GIPCL, the time required by the successful bidder's engineer to report at the suite location, fault detection & rectification time shall be considered as MTTR. MTTR will not be included in penalty calculation. Successful bidder has to repair / replace the faulty equipment within the MTTR timeline. The replacement of any equipment / part of the equipment / system shall be having same of higher configuration (in case of discontinuation declared by the product OEM) of quoted OEM make. Penalty calculation will start from the delay beyond MTTR. The time period consumed by the successful bidder beyond MTTR for restoration of particular equipment / system (by repairing OR by replacement with equivalent or higher configuration of same make OR by new shipment) will be considered as downtime and penalty will be applied as per penalty amount mentioned in the clause of "Service Level Product Category wise".

Service Level Product Category-wise:

- Level 1 – Critical (unable to process transaction in the system)
- Level 2 – Major Risk
- Level 3 – Minor Risk

| Sr. No. | Severity Level | Equipment / Items   | MTTR     |
|---------|----------------|---|----------|
| 1       | Level 1        | 1. UHF RFID Reader  | 08 hours |
|         |                | 2. Application, Database and VMS Software & services  |          |
|         |                | 3. GILDMS Desktop client software application for Weighbridges  |          |
|         |                | 4. GILDMS Application software including Web based application  |          |
|         |                | 5. GILDMS related all supported software services & integration with CGM online e-royalty system with Weighbridge application |          |
|         |                | 6. Application Server   |          |
|         |                | 7. Database Server  |          |



|   |         |   |          |
|---|---------|---|----------|
|   |         | 8. Video Monitoring & Recording Server (VMS)                          |          |
| 2 | Level 2 | 1. CCTV Camera  | 24 hours |
|   |         | 2. Boom Barriers set with sensor, loop detector                       |          |
|   |         | 3. Controllers  |          |
| 3 | Level 3 | 1. UPS  | 72 hours |
|   |         | 2. Traffic Light  |          |
|   |         | 3. Desktop computers  |          |
|   |         | 4. All Supporting Accessories like RFID Tag, cable, junction box etc. |          |

**Penalty Amount (Applicable beyond MTTR):**

| Sr. No. | Severity Level | Equipment / Items   | Penalty amount in Rs. per incident per day for software / Equipment failure. |
|---------|----------------|---|--|
| 1       | Level 1        | 1. UHF RFID Reader  | 1,500/-  |
|         |                | 2. Application, Database and VMS Software & services  |  |
|         |                | 3. GILDMS Desktop client software application for Weighbridges  |  |
|         |                | 4. GILDMS Application software including Web based application  |  |
|         |                | 5. GILDMS related all supported software services & integration with CGM online e-royalty system with Weighbridge application |  |
|         |                | 6. Application Server   |  |
|         |                | 7. Database Server  |  |
|         |                | 8. Video Monitoring & Recording Server (VMS)  |  |
| 2       | Level 2        | 1. CCTV Camera  | 1,000/-  |
|         |                | 2. Boom Barriers set with sensor, loop detector   |  |
|         |                | 3. Controllers  |  |
| 3       | Level 3        | 1. UPS  | 500/-  |
|         |                | 2. Traffic Light  |  |
|         |                | 3. Desktop computers  |  |
|         |                | 4. All Supporting Accessories like RFID Tag, cable, junction box etc.   |  |

There will be a penalty cap of 10% of quarterly invoice of warranty / CAMC period. In case, penalty of 10% imposed for two consecutive quarters, in such case, no payment of forthcoming two quarters



will be released to the successful bidder. However, if penalty of 10% imposed for six consecutive quarters, then it shall be construed as material breach of contract and may lead to termination of the contract as per sole discretion of GIPCL. This however may not restrict the right of GIPCL to impose penalties as per RFP terms and the liability of successful bidder shall not be restricted to the said amount.

During contract period, the penalty will be recovered from quarterly AMC / interim payment. Penalty beyond quarterly AMC payable value, will be recovered from Security Deposit & it is the responsibility of the successful bidder to restore the Security deposit at its full value within 15 days from the penalty recovery date and failure of same allow GIPCL to proceed ahead with forfeiting of SD.

**Penalty for deputed Manpower:**

Successful bidder has to ensure that the manpower must be deployed at the site location from the date of project Go-Live Date and acceptance by the GIPCL. Successful bidder has to maintain an attendance register of manpower deputed at site location. Successful bidder shall ensure that alternate arrangements are made on leave for the deputed manpower on its own cost. The deputed manpower has to get approve the leaves in advance by the local designated authority of GIPCL. Non deputation / absence of manpower at the sole discretion / approval of GIPCL's authority will not attract imposing of penalties. In rest of the cases, penalties applicable as mentioned below:

**Penalty:** Penalty manpower's non deputation / absence will be calculated on monthly basis and penalized amount will be recovered from quarterly payment of warranty / CAMC submitted by successful bidder. If successful bidder failed to provide replacement / substitute / New staff of same qualification & experience then penalty of **Rs. 1,500/- per day per manpower will be applied. However, manpower penalty is excluded from penalty calculation of service level category as mentioned above.**

During contract period, all kinds of above-mentioned penalties will be adjusted from remaining / balanced payments of interim warranty / CAMC. In case, if required, balanced penalty can also be recovered by revoking Security Deposit additionally. It is responsibility of successful bidder to restore Security deposit at its full value within 15 working days from penalty recovery date and failure of same allow GIPCL to proceed ahead with forfeiting of SD.

**Exclusion from SLA:**

- ❖ The scheduled outages / planned maintenance should be excluded from considering downtime.
- ❖ Down time due to failure or malfunction of any equipment or services not provided by successful bidder. However, it is responsibility of successful bidder has to prove that outage is not solely attributable to any equipment or services provided by successful bidder.
- ❖ Successful bidder will require to plan for 'scheduled outages / planned maintenance' in advance with prior approval of GIPCL. This will be planned during non - working hours. In exceptional circumstances, GIPCL may allow successful bidder to plan scheduled downtime in working hours.



The scheduled outages / planned maintenance will include activities like software upgrades, patch management, security software installations etc.

❖ Downtime due to the last mile connectivity and raw power supply failure beyond UPS backup period will be excluded.

**Successful Bidder's Liability of Deployed Manpower:**

❖ The entire financial liability in respect of manpower deployed for this project shall be of the successful bidder and the GIPCL will in no way be liable.

❖ For all intents and purposes, successful Bidder shall be the “Employer” within the meaning of different Labour Legislation in respect of manpower so employed and deployed for this project.

❖ Successful bidder shall be solely responsible for the redressal of grievances / resolution of disputes relating to persons deployed. GIPCL shall, in no way, be responsible for settlement of such issues whatsoever.

❖ GIPCL shall not be responsible for any financial loss or any injury to any person deployed by the bidder in the course of their performing the functions/duties, or for payment towards any compensation. Deputed persons by bidder should be adopt Safety norms in the Plant and Mines site areas.

❖ Manpower deployed by successful bidder shall not claim or be entitled to pay, perks / allowances and other facilities admissible to regular / confirmed employees of GIPCL during or after expiry of the Contract.

❖ In case of termination of the contract on its expiry or otherwise, manpower deployed by successful bidder shall not be entitled to and will have no claim for any absorption in the regular or other capacity to the GIPCL.

❖ Successful bidder will be responsible for compliance of all statutory provisions relating to Minimum Wages, Provident Fund, and Employees State Insurance etc. in respect of the persons deployed. GIPCL shall have no liability in this regard.

❖ In case, successful bidder fails to comply with any statutory / taxation liability under appropriate law, and as a result thereof the GIPCL is put to any loss / obligation, monetary or otherwise, GIPCL will be entitled to get itself reimbursed out of the outstanding bills OR by revoking Security Deposit, to the extent of the loss or obligation in monetary terms.



## SECTION H – SCOPE OF WORK:

**Location Details: Please find enclosed LIST OF LOCATIONS as Annexure A.**

### ❖ **Scope of Work:**

The scope of work covers the design, supply, installation, configuration, implementation, integration, testing, commissioning, and comprehensive maintenance of an upgraded hardware and software solution for the existing RFID-based Lignite, Limestone, Outside Mineral, and Fuel Procurement system, including the procurement of external mineral and imported coal. The objective is to replace obsolete infrastructure, strengthen system capabilities, and establish a fully integrated, automated, and reliable digital environment across all operational locations. The scope further includes the redevelopment of the application platform, integration with weighbridges, surveillance systems, enterprise platforms, and external regulatory systems, along with enabling real-time monitoring, automated validations, and centralized control. The solution shall ensure end-to-end digitization of the vehicle lifecycle from entry to exit with minimal manual intervention, while being designed to suit mining conditions, support long-term operational sustainability, and remain scalable for future requirements, with all components meeting industrial-grade and interoperability standards aligned with GIPCL's operational needs. Phase-wise Project implementation/deliverable priority is as follows:

**Note: Total Hardware & Software solutions should be designed, installed and integrated as per GIPCL requirements.**

#### **Phase-1:**

Upgrade and establish the core system foundation through replacement and modernization of existing hardware and software components, including but not limited to:

1. Replacement of obsolete RFID readers, servers, controllers, network components, and associated field equipment
2. Design, development, and deployment of a new application platform replacing the existing system
3. Implementation of automated weighbridge management with system-driven transaction processing
4. Integration with existing weighbridges, RFID infrastructure, and operational checkpoints
5. Integration with external systems such as CGM e-royalty platform and internal enterprise systems (GIPCL will provide CGM's E-Royalty API)
6. Establishment of centralized database, application servers, and system architecture
7. Configuration of network connectivity, data flow, and system interfaces across all locations
8. Enablement of basic monitoring dashboards, reporting mechanisms, and audit trails
9. Data migration, validation, and system testing
10. User training, documentation, and phased rollout across all operational sites



## **Phase-2:**

Supply, installation, commissioning, and integration of advanced hardware and software components to enhance operational visibility, validation, and control:

1. ANPR cameras for weighbridges to enable secondary vehicle identification and verification
2. Video analytics software with ANPR analytics, along with dedicated server infrastructure
3. Integration of advanced analytics and surveillance systems with the central application platform
4. Public Address (PA) systems with LED display units for driver communication at weighbridges
5. Vehicle positioning sensors at weighbridges for accurate alignment and weight capture validation
6. Enablement of real-time alerts, exception handling, and enhanced monitoring capabilities.
7. Integration with SAP ERP and other third-party software

➤ Following functional requirements shall be covered in the RFID based dispatch management system solution.

1. **Valia Mines Lignite dispatch management system**
2. **Vastan Mines Lignite Dispatch Management system**
3. **Mangrol Mines Lignite Dispatch Management system**
4. **Limestone dispatch management system**
5. **Outside Mineral/Fuel procurement (i.e. Imported Coal/Lignite)**

### ➤ **Key Objective:**

The key objectives of the solution design are as follows:

- To communicate the end-to-end solution to all stakeholders, including Weighbridge Operations, Monitoring Dashboards & Reports, and Surveillance Systems.
- To establish a fully integrated and automated dispatch management system covering the complete vehicle lifecycle across all operational locations
- To define a scalable and adaptable system framework that supports future expansion, technology upgrades, and evolving operational requirements
- To ensure end-to-end traceability of all transactions, enabling improved compliance, control, and reconciliation across the dispatch ecosystem
- To provide comprehensive views of the solution necessary for design, build, testing, and implementation phases.
- To define the solution's impacts for accurate estimation, planning, and delivery.
- Integration with the RTO mParivahan portal for real-time vehicle fitness, permit, and insurance status verification at the entry gate. Flags vehicles with expired documents.



- Provision of a Unique Transaction Reference for Imported Coal to ensure traceability and control of external fuel procurement transactions

➤ **Solution Overview:**

The proposed solution is designed to enable a smart, automated, integrated, and highly available Weighbridge and Dispatch Management System using advanced digital technologies, ensuring end-to-end visibility, control, and operational reliability across all mining locations.

On-line, real-time, and fully automated system is intended to identify, authenticate, and authorize equipment/dumpers/vehicles for entry into GIPCL premises/mines, while ensuring complete traceability of movement across the entire dispatch lifecycle and preventing unauthorized access.

The desired system should ensure that each equipment/dumper/vehicle entering the mine through the IN Gate is registered in a centralized system and mapped with a unique RFID TAG containing a fixed identification number along with key master details (such as Truck Registration Number, Contractor/Consumer details, and other required attributes). The RFID Tag shall be securely affixed on the vehicle windscreen to enable reliable reading through UHF RFID Readers deployed across checkpoints.

Upon registration of equipment/dumpers/vehicles, all relevant details such as ID Number, Vehicle Registration Number, Contractor/Consumer Name, and associated attributes shall be captured and maintained in the central application database. The system shall ensure synchronization between RFID identification and backend data, eliminating dependency on tag-level data writing and enabling faster processing and easier data management.

Specific entry points within the mine premises shall be secured using an RFID-based system integrated with boom barriers. Only authorized personnel or service vehicles will be allowed entry. The system shall be fully integrated with CCTV surveillance, ANPR camera with video analytics for vehicle number plate detecting & validate, vehicle positioning sensor, PA system with LED display, IoT controller, Boom barriers, and traffic signal lights. The UHF RFID infrastructure must be tightly coupled with these components to ensure coordinated and secure entry/exit.

At each entry/exit point, the UHF RFID reader and boom barrier will authenticate vehicles. Only authorized vehicles will be granted access to the mine or plant area. CCTV cameras will be strategically positioned to capture real-time images of the vehicles upon successful RFID authentication, with time stamps. These images shall be transmitted to the central server in real-time.

Vehicles equipped with RFID tags may pass through the IN/OUT gates only after successful authentication via the respective gate's RFID reader. The RFID reader will trigger the boom barrier and associated CCTV camera, allowing or denying access. A flashing green light will signal authorization (“Permit”), while a flashing red light will indicate denial (“Deny”).



The system must generate various Management Information System (MIS) reports based on RFID data collected at different checkpoints. Transactional data should be presented in both graphical and tabular formats and made available through a web-based application accessible at multiple administrative levels. The application must support both online and offline data capture, with automatic synchronization upon restoration of network connectivity.

The system shall provide the capability to whitelist or blacklist equipment for specific transactions based on operational requirements.

A centralized network monitoring dashboard shall be implemented to provide real-time visibility into the operational status (active/inactive) of all deployed field equipment. The dashboard must display the live status (active/inactive) of all RFID hardware components.

UHF RFID readers will be strategically installed at locations beyond weighbridges and entry/exit gates to capture real-time location data of equipment in transit. A secure, password-protected web application shall provide real-time visibility of equipment location based on RFID event data.

Integration with the e-Royalty system is mandatory, ensuring unified tracking and compliance. Core objective is to make an integrated Weigh Bridge which should fetch weighing and equipment information automatically from RFID system and calculate the net lignite / lime weight, generate the dispatch document from store data for further processing and send it to central database.

System should be able to generate equipment wise / weighbridge wise weighing summary details. The RFID Reader has been installed at weighbridge and the weighbridge data will be fetched automatically in software application to make operator independent autonomous weighbridge operations.

The relocation of the weighbridges at Valia and the SLPP plant is planned within the next two years and shall be included in the proposal. However, civil works, electrification, and networking infrastructure will be provided by GIPCL.

Before proceeding for the transaction, system should follow certain business checks such as earlier trip sheet is completed or not, vehicle is authorized for transaction or not for assigned Mines area/outside mineral/Imported coal procurement etc.

- If the trip is not completed then vehicle should not be allowed in lease for new trip sheet.
- If Trip is not generated vehicle should not be allowed in plant area.
- If vehicle is registered in the RFID system but restricted to other operational area should not be allowed for transaction

CCTV camera is installed at the weighbridge in such a manner that it captures the number plate or details of whether vehicle is filled or unfilled. CCTV camera should be triggered using RFID system



once transaction completes. All 12 Nos. of weighbridges are bi-directional and 2 Integrated UHF RFID readers are installed currently.

A centralized dashboard will be hosted at the Head Office to provide real-time monitoring and live status updates of all mine operations. The system will be supported by a clustered central database to ensure data redundancy, reliability, and high availability. Dashboard of information must be available through web enabled system for different authorities as per GIPCL's requirement.

Dashboard should provide Real time information of the vehicles such as,

- Nos. of Vehicles currently available within premises.
- Vehicle transaction details at specific point such as Entry, Exit, Weigh bridge.
- No. of vehicles in-transit for Lignite dispatch

User should be able to configure the alert profile in system, below mentioned are some suggestive lists for the same,

- Overload alert at weighbridge
- Weighing difference limit (at source and destination)
- Nos. of time violation per equipment/operator
- The system shall generate alerts for vehicle registration, insurance, and driver's license validity, displaying notifications in advance of their expiry dates.

The integrated weighbridge and e-royalty system to generate invoices along with taxes and royalty data at all mines. GILDMS software application should be integrated with the e-royalty system and be capable of providing this invoice.

#### **Integration with e-Royalty:**

- The System should be integrated each Mine lease code with the Commissioner of Geology and Mining (CGM), Gujarat's online trip sheet (Royalty Pass) generation system, ensuring seamless and secure data exchange between both systems.
- The system should capture validated vehicle and weighbridge data from the RFID-integrated system and transmit the same to the CGM application for generation of trip number.
- The system shall receive trip number and associated details from the CGM server in real time and map the same with the corresponding transaction within the system.
- The system should comply with all applicable guidelines, protocols, and data validation requirements defined by CGM, Gujarat.
- Integration with the e-Royalty system shall be bi-directional, enabling both data push and data fetch as per transaction requirements, with proper validation and synchronization mechanisms.
- The system shall incorporate acknowledgement handling and retry mechanisms to ensure successful data transmission without duplication of royalty transactions.
- The system shall maintain a local transaction buffer to store data during CGM system unavailability and automatically synchronize pending transactions once connectivity is restored.



- All transactions exchanged with the CGM system shall be logged with timestamps and status to ensure traceability, auditability, and reconciliation.

### **Key Functional Highlights**

The controller will communicate with the Weighbridge Indicator via serial port and with the application over TCP/IP.

The application architecture will follow a centralized architecture with distributed processing capabilities, including database synchronization between local and central servers, configured to ensure high availability and offline continuity.

A centralized web-based application will communicate with each controller and local system over TCP/IP.

The automated Weighbridge System will:

- Automatically identify a vehicle using RFID integrated with system validation mechanisms
- Capture weight data only after confirming correct vehicle positioning through positioning sensors and system validation

Validate and store transaction data in the central database with proper mapping to vehicle and trip details along with bind number plat and top view image of vehicle with individual trip from CCTV camera installed at weighbridges .

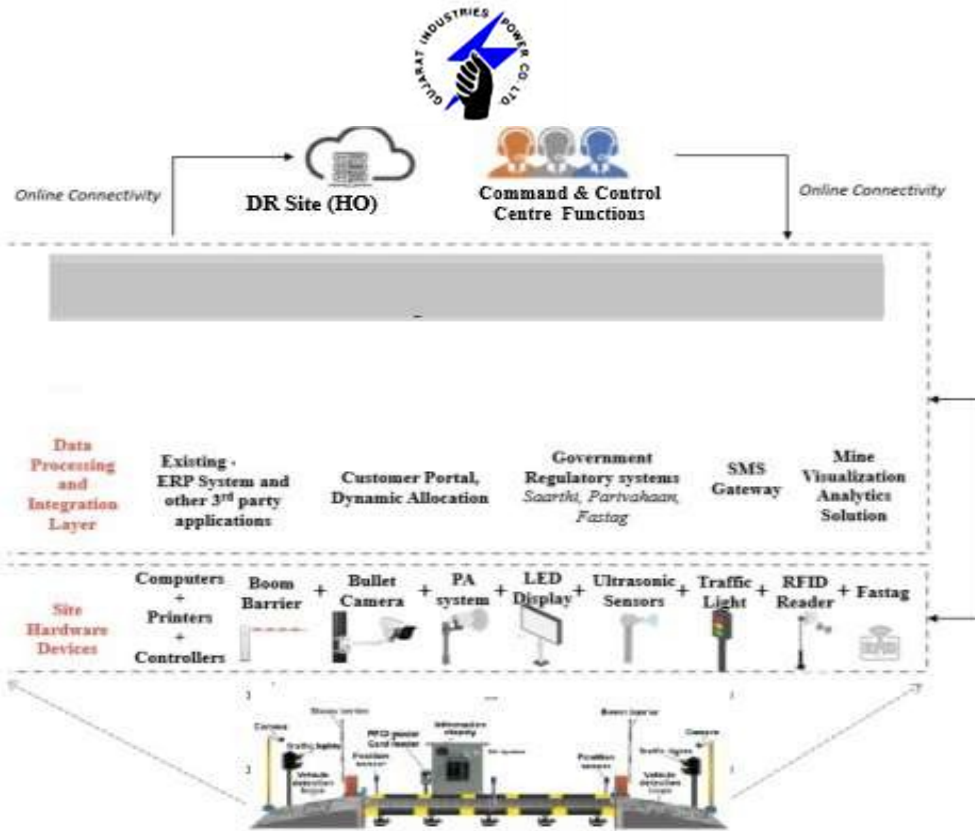
- Interface with backend and external systems using secure and standardized integration mechanisms (APIs/web services)
- Generate alerts, logs, and trigger workflows based on predefined business rules, validations, and exception conditions

### ➤ **Solution Summary**

The **solution framework** is summarized below:

#### **Solution Framework Overview:**

The RFID-based Dispatch System shall digitize each checkpoint of the truck circuit with the following capabilities:



- **Auto-population** of truck and relevant information from centralized application/ERP based on unique RFID tag numbers, linking transporters and trucks to respective Delivery Orders (DOs).
- **Data capture capability**, including:
  - RFID data through RFID readers,
  - Camera feed data of laden and unladen trucks at entry and exit weighbridge checkpoints,
  - Detection and validation of vehicle number plate using ANPR camera integrated with video analytics software, with mapping to transaction records
  - Weighment of trucks at entry checkpoint (if applicable), tare weighbridge, and gross weighbridge with automated data capture.
- **Real-time vehicle tracking** using RFID (point-to-point basis) for better traffic management within the mine premises.
- **Event log sheet** maintenance vehicle-wise, with **alert generation** in case of deviation from the truck circuit.
- **Automated weighbridge operations** at tare and gross weighbridges with system-driven validation and minimal operator dependency.



Successful bidder shall design, develop, and implement the solution to support all defined process flows, covering both existing and proposed workflows, ensuring seamless transition and operational continuity.

### Hardware Components Envisaged at Entry and Exit Weighbridges

| Sr. No. | Component                             | Objective   |
|---------|---------------------------------------|---|
| 1       | Computer System                       | Data Automation   |
| 2       | RFID Tags (Fastag)                    | Tracking of trucks within the mine premises   |
| 3       | Pole-Mounted RFID Reader with Antenna | RFID data capture   |
| 4       | Pole-Mounted Bullet Camera            | Remote monitoring of trucks (top and front views) and number plate identification   |
| 5       | IR Sensors                            | Vehicle positioning on the weighbridge  |
| 6       | Boom Barrier                          | Controlled access at vehicle Entry/Exit checkpoints   |
| 7       | IoT Controller                        | Control boom barriers, positioning sensor, PA system and traffic signals; pass logs to Cloud DC hosted at HO and Mine cluster |
| 8       | Traffic Signal                        | Guidance for boarding and deboarding at checkpoints   |
| 9       | ANPR camera                           | For Vehicle Number Plate Detection & validation   |
| 10      | PA system with LED display            | For an audio-visual announcement  |

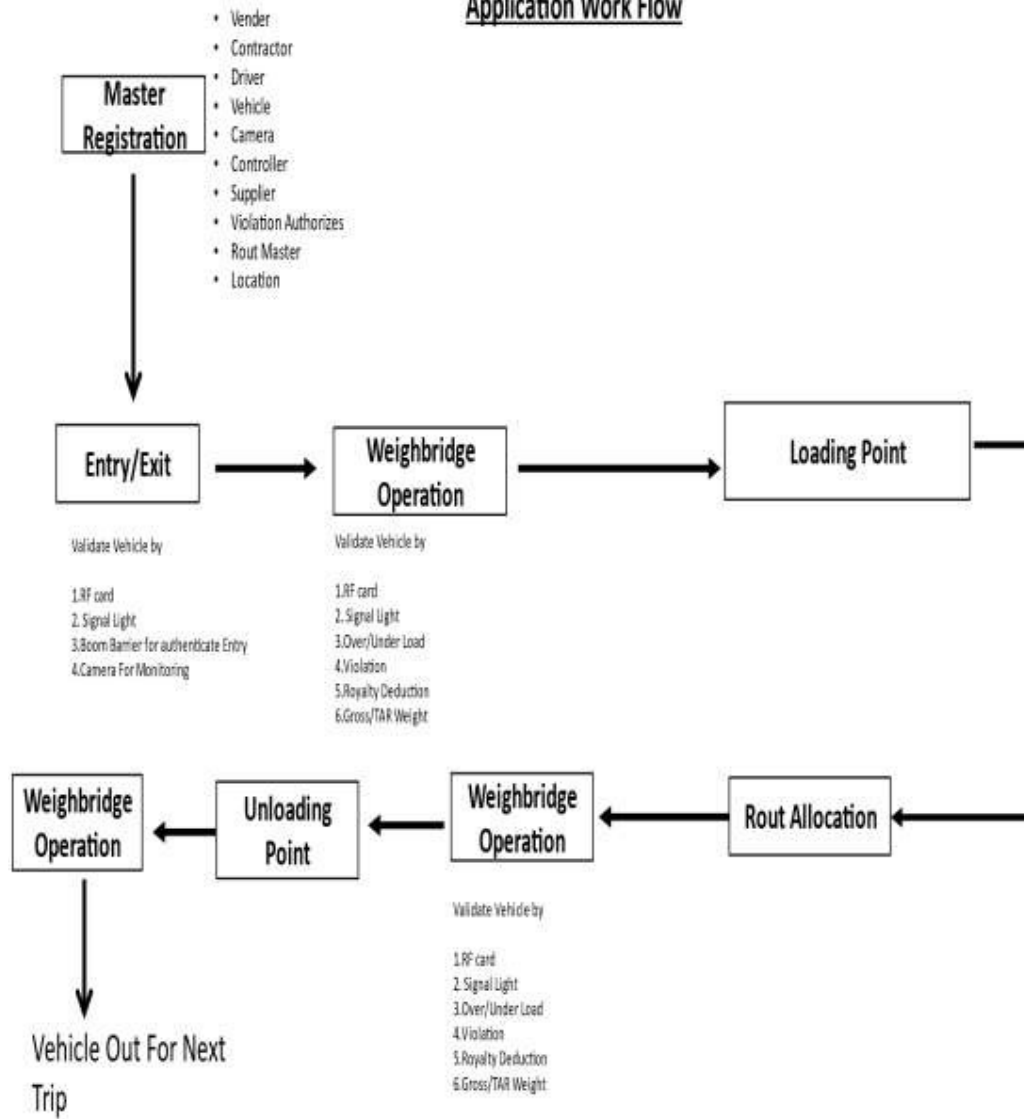
**Successful bidder shall utilize the existing infrastructure and upgrade it wherever required to meet the desired objectives. GIPCL shall provide the existing network and power infrastructure up to the nearest junction point. Connectivity from the nearest junction point to the controller shall be under the successful bidder's scope.**

**Note:** The above represents a **tentative solution framework** envisaged at this stage. The successful bidder shall be responsible for **designing and implementing a robust and comprehensive solution** that fully meets the project objectives. The detailed Scope of Work is specified as below.



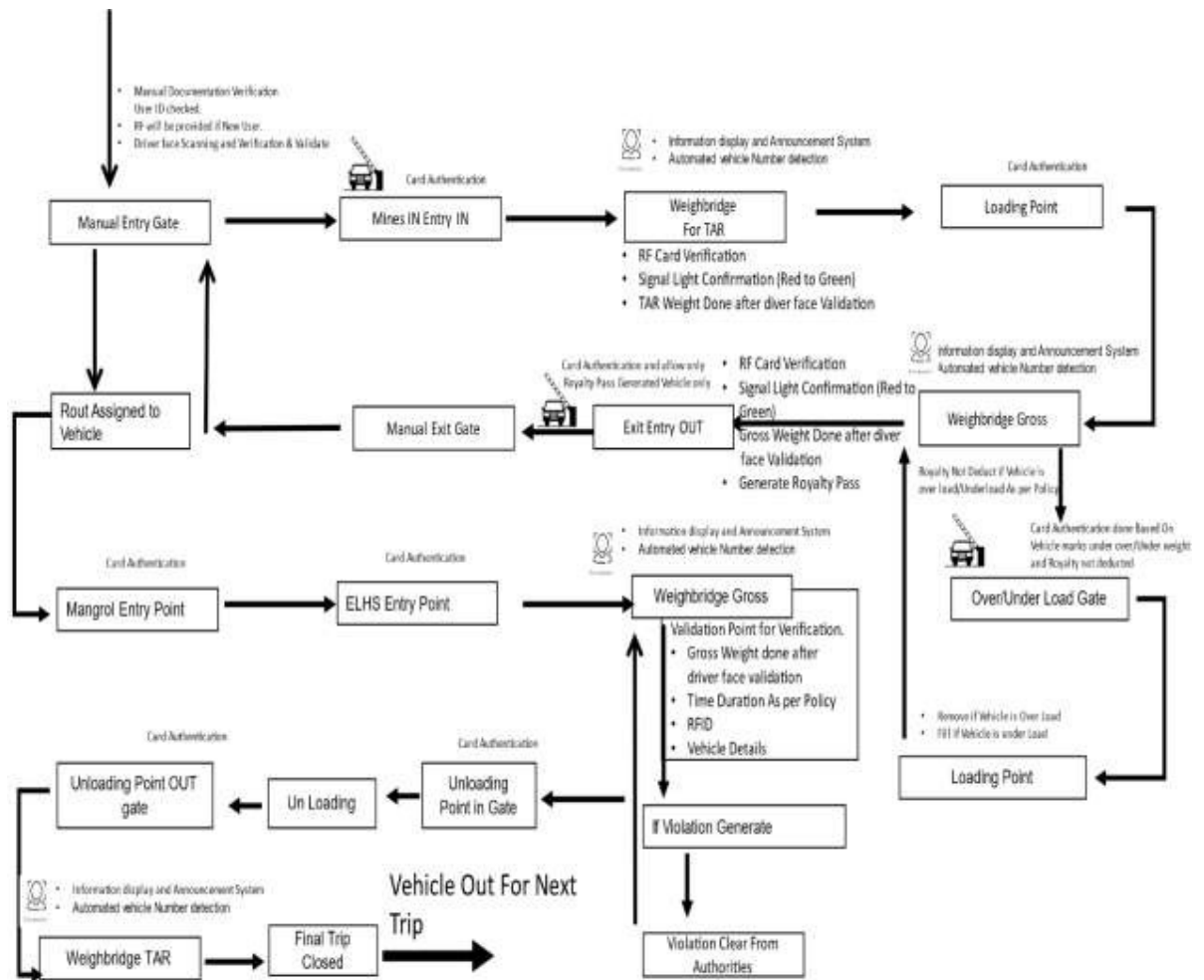
➤ **Application Workflow:**

**Application Work Flow**



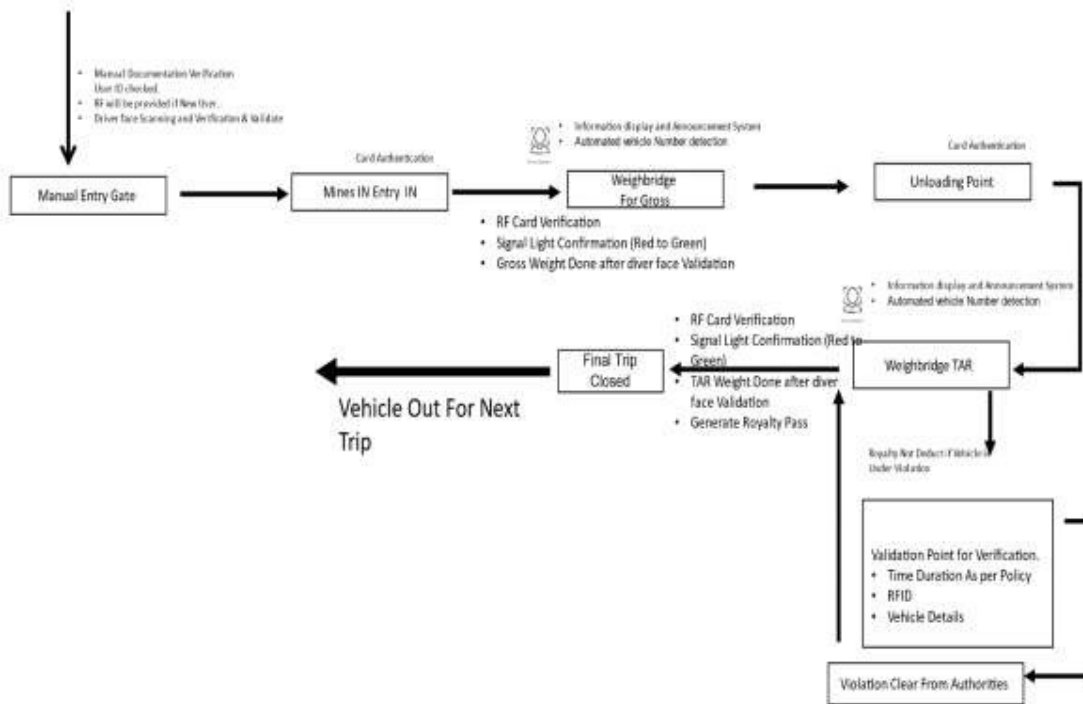


➤ **Valia Mines Workflow:**



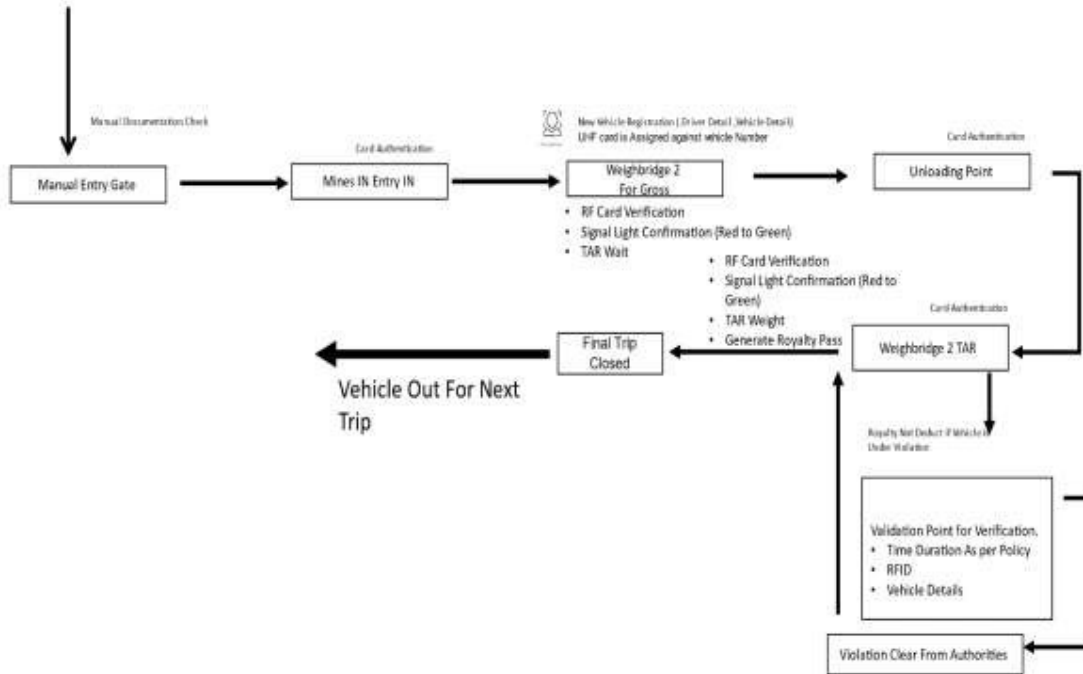


➤ **Vastan Mines Workflow:**



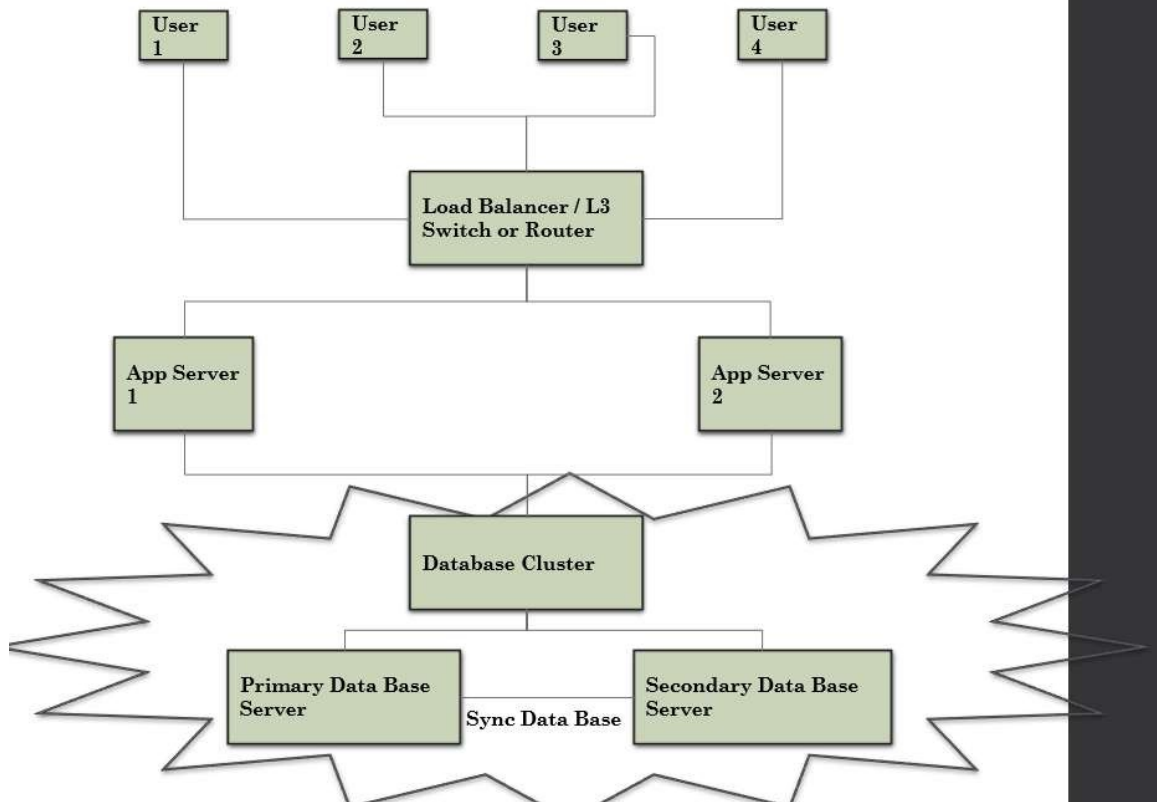


➤ **Vastan Limestone Mines Workflow:**





➤ **Sever Working Diagram:**



➤ **Server Working Flow chart in HA mode:**

**(1) Client Requests & Load Balancer / L3 Switch or Router**

- **Purpose:** Entry point of all client traffic.
- **Function:**
  - Distributes incoming requests across multiple application servers.
  - Continuously monitors app server health and reroutes traffic in case of failure.

**(2) Application Server Nodes (App Server 1 & App Server 2)**

- **Purpose:** Execute business logic and process user interactions.
- **Function:**
  - Multiple instances run in parallel for scalability and redundancy.
  - Designed to be **stateless**, allowing requests to be handled by any available node.
  - Connect to a common backend (database cluster).

**(3) Database Cluster (Primary and Secondary Database Servers)**

- **Purpose:** Centralized data storage for all application instances.
- **Function:**
  - Both app servers interact with the Database Cluster, ensuring consistent data access.



- The cluster includes a Primary Database Server and Secondary Server (replica/failover).
- Data is synchronized (either synchronous or asynchronous) between the two.
- Ensures data redundancy and failover readiness.

#### (4) Failover and HA Mechanism

- **Purpose:** Ensure continuous service availability.
- **Function:**
  - Load Balancer/L3 Switch or Router performs health checks on application servers and routes traffic only to healthy instances.
  - In case of app server or DB node failure:
    - Traffic is rerouted to the available app server.
    - The Database Cluster fails over to the secondary node, minimizing downtime.
  - The system continues functioning with zero or minimal user impact.

#### ➤ Existing Hardware Summary:

| Sr. No | Name of Item        | Make               | UOM | Qty | Qty (in Use) |
|--------|---------------------|--------------------|-----|-----|--------------|
| 1      | RFID Reader         | CSL (Nirikshak)    | Nos | 53  | 51           |
| 2      | Boom Barriers       | BGI                | Nos | 5   | 3            |
| 3      | IP based Controller | Nakalank & Amnex   | Nos | 30  | 28           |
| 4      | Traffic Light       | Standard           | Nos | 32  | 30           |
| 5      | IP Cameras (Fixed)  | Honeywell          | Nos | 20  | 20           |
| 6      | IP Cameras (PTZ)    | Polixel, Honeywell | Nos | 11  | 11           |
| 7      | Servers             | Dell               | Nos | 4   | 4            |
| 8      | UPS 1 KVA           | Eaton              | Nos | 17  | 17           |
| 9      | UPS 3 KVA           | Eaton              | Nos | 3   | 3            |
| 10     | Printers            | -                  | -   | -   | -            |

#### ➤ Note:

- ⇒ Existing electrical & network infrastructure will be utilized wherever feasible or with approval by GIPCL.
- ⇒ Civil foundation will be constructed as required for boom barriers, RFID readers, CCTV cameras and traffic lights.
- ⇒ Required software licenses to be included in the submitted bid.

**Note:** The existing infrastructure is already in place at the mine site. Bidders are advised to undertake a mandatory site visit to familiarize themselves with the current setup. A list of existing



equipment has been provided for reference; however, certain new and upgraded equipment proposed as part of the system are not included in this list. These additional items are detailed separately under **SECTION L – Estimated Bill of Materials (BoM)** for consideration.

To strengthen security and enable automated vehicle movement at the Valia Mines entry–exit points and the Vastan Training Centre (VTC), additional hardware deployment has been identified. The current setup relies on manual record-keeping with limited surveillance, resulting in gaps in monitoring and control. The proposed deployment introduces RFID-based identification, surveillance systems, and access control mechanisms to ensure improved traceability, operational efficiency, and system-driven validation at these critical checkpoints.

- **Automation of Entry–Exit Operations:** Deployment of RFID readers, boom barriers, and signal systems to replace manual register-based vehicle tracking.
- **Enhanced Surveillance and Monitoring:** Installation of CCTV (Bullet & PTZ) and proposed ANPR cameras to ensure continuous monitoring and vehicle verification.
- **Integrated System Control:** Use of IoT controllers, network infrastructure, and centralized systems to enable coordinated and automated operations.
- **Operational Reliability and Continuity:** Provision of UPS, desktop systems, and network components to ensure uninterrupted functioning and real-time monitoring.
- **Phased Capability Enhancement:** Phase I focuses on core automation infrastructure, while Phase II introduces advanced features such as ANPR and PA systems for improved validation and communication.

#### ➤ **Detailed Scope of Work:**

The Scope of Work is divided into the following parts:

- **Part 1: As-Is Assessment / Review of the Existing Dispatch System and Operations.**
- **Part 2: Design and Development of Dispatch Management Solution,** including system architecture, application development, database design, dashboards, and reporting mechanisms.
- **Part 3: Supply, Installation, and Configuration of Hardware Components,** including replacement of obsolete infrastructure and deployment of new field devices as per the approved BoM.
- **Part 4: Integration with Hardware and Implementation of Dispatch Management Solution,** including integration with weighbridges, RFID systems, surveillance systems, enterprise systems, and CGM’s Online E-royalty system. API for E-royalty will be provided by GIPCL.
- **Part 5: Training and Capacity Building,** including user training, system documentation, and handholding support during stabilization phase.
- **Part 6: Comprehensive Annual Maintenance Contract (CAMC)** including system support, preventive maintenance, updates, and performance monitoring

#### **Part 1: As-Is Assessment / Review of the Existing Dispatch System and Operations**



Successful bidder shall undertake the following tasks:

- Conduct an in-depth assessment of the existing Dynamic Allocation Portal, Customer Portal, relevant ERP modules, Dispatch Applications, and existing RFID-based dispatch system to understand current data flows, system integrations, data input, and process validation.
- Review and assess different processes at site, including entry/exit operations, weighbridge processes, and checkpoint validations, unloading points along with interdependencies with third-party applications (i.e., CGM's Online E-royalty system).
- Analyse dispatch operations, vehicle lifecycle (entry to exit), data collection methods, process mapping, transporter registration, and dispatch mechanisms.
- Evaluate the existing technology landscape including software, hardware, network infrastructure, and communication systems.
- Review standard operating procedures (SOPs), workflow diagrams, system configurations, and existing data flow architectures.
- Observe dispatch operations in real-time to understand workflows, communication protocols, system interactions, and decision-making processes at the mines.
- Identify and review existing Key Performance Indicators (KPIs) related to dispatch efficiency, turnaround time, system utilization, and operational performance.
- Analyse operational and system-generated data to detect patterns, bottlenecks, inefficiencies, and manual dependencies.
- Identify limitations and gaps in current infrastructure, including hardware obsolescence, system reliability issues, integration gaps, and lack of real-time visibility, to recommend a fully digitalized and integrated dispatch solution.
- Upon completion, the successful bidder shall submit a comprehensive As-Is Assessment Report, including gap analysis and key observations, to GIPCL's designated authority for review and approval.

## **Part 2: Preparation of System Requirement Specification and Design Document (SRSD)**

Successful bidder shall carry out the following tasks under Part 2 of the Scope:

- After completing the As-Is Assessment Study, successful bidder shall prepare the SRSD document, elaborating on system design, architecture, business rules, validation mechanisms, and failover mechanisms for the Dispatch Management Solution.
- The SRSD shall include (but not be limited to) the following aspects:
  - System Hardware and Software Architecture
  - Database Design including real time system driven backup & data replication strategy
  - Software Design
  - Hardware and Software Integration Architecture (including third-party applications, ERP, and regulatory systems such as CGM e-royalty)
  - Detailed Functionalities of Dispatch Applications
  - Detailed Functional Requirements for Hardware
  - Graphical User Interfaces (GUI) for all modules



- Cloud / On-Premise Infrastructure Design and Storage Requirements
- Interface Design between hardware, application, and external systems
- Failover Mechanisms and Disaster Recovery (DR) Strategy
- Business Rules, Validation Logic, and Process Workflows
- While preparing the SRSD, successful bidder shall align the design with the indicative transformed dispatch processes, phased implementation approach, and the minimum functional and technical requirements specified in this RFP.
- Successful bidder shall meet the minimum functional requirements and technical specifications and may propose additional enhancements in the SRSD, ensuring scalability, reliability, and future readiness of the system.
- The solution shall capture timestamp details including CCTV camera snapshot/image of each mineral-carrying vehicle across the complete lifecycle, including:
  - Entry into mine premises,
  - Tare weighing at the weighbridge,
  - Gross weighing at the weighbridge,
  - Exit from the mine premises.
  - Unloading at respective stockyards / destination points.
- Successful bidder shall obtain formal sign-off of the SRSD document from GIPCL before commencing solution development.
- The Dispatch Management Solution shall be implemented across all GIPCL locations with centralized real-time monitoring, dashboards, and reporting accessible from GIPCL Head Office (HO) at Vadodara and SLPP site at Nani Naroli.

### **Part 3: Supply, Installation, and Configuration of Hardware:**

Successful bidder shall undertake the following tasks under Part 3:

- Conduct a detailed study of hardware requirements at all checkpoints, based on specified transformed process flows, site conditions, and environmental factors (dust, vibration, temperature) prevalent in mining operations.
- Supply hardware as per the Bill of Quantities (BOQ) specified in estimated Bill of Material – **SECTION L** of this tender document, including replacement of obsolete and end-of-life hardware components such as RFID readers, servers, controllers, and network devices.
- Ensure that all supplied hardware meets the minimum technical specifications and functional requirements outlined in **SECTION I** of this tender document and shall be industrial-grade, suitable for continuous mining operations with high availability requirements.
- Procure, supply, install, and configure all hardware at checkpoints after approval of the finalized quantities from GIPCL, ensuring proper alignment with site layout, traffic flow, and operational workflow at each location.
- Complete configuration and integration of hardware with the Dispatch Management Solution, including RFID systems, weighbridges, surveillance systems (CCTV / ANPR), GPS-based tracking systems, and external system interfaces.



- Ensure hardware deployment supports scalability, future expansion, and planned infrastructure changes such as weighbridge relocation and addition of new checkpoints.

#### **Part 4: Integration with Hardware and Implementation of Dispatch Management Solution:**

Successful bidder shall design and develop the Dispatch Management Solution in accordance with the approved SRSD and minimum functional and technical requirements as outlined in this RFP.

##### **A. Development and Implementation of Dispatch Management Solution:**

- Develop the digitalization solution applications using the latest technologies, ensuring scalability and maintainability.
- Integrate the solution with GIPCL's existing SAP ERP and other backend applications.
- Host applications using GIPCL's existing network and server room infrastructure with provision for backup and recovery.
- Provide additional required backend hardware such as servers and UPS systems.
- Upgrade existing infrastructure as necessary to maintain compliance and warranty coverage.
- Manage application hosting throughout the contract tenure in a secured environment.
- Deploy the solution in High Availability mode.
- Integrate applications with all relevant GIPCL and third-party systems through APIs.
- Implement Single Sign-On (SSO) features with encrypted password policies, authorization matrix, and audit logging.
- Implement Service Level Monitoring and Maintenance System (SMMS) for proactive hardware and software monitoring.
- Develop and implement a Failover Mechanism to ensure minimal downtime and maintain uninterrupted service.

##### **B. Integration with Other Systems and Hardware:**

The Dispatch Management Solution shall be integrated with:

- Hardware including IP Cameras, ANPR camera, PA system with LED Display, Positioning sensor, Boom Barriers, Traffic Lights, Weighbridge Digitizers through Desktop PC's Serial port (i.e. COM1), LED Displays, IR Sensors, RFID Tags and Readers, and Controllers.
- Government Regulatory Systems (CGM's E-royalty system) with validation and retry mechanisms.
- GIPCL's SAP ERP and third-party applications/APIs.
- SMS/WhatsApp/Email Gateways for sending alerts and notifications.

##### **Integration with CGM's E-Royalty System:**

GIPCL has integrated a weighbridge and an e-royalty system to generate invoice along with taxes and royalty data at all mines (CGM's E-Royalty API will be provided by GIPCL). GILDMS software application should be integrated with e-royalty system and be capable of providing this invoice.

Integration with e-Royalty:



1. System should be integrated each Mine lease code with Commissioner of Geology and Mining, Gujarat's online trip sheet (Royalty Pass) generation system.
2. System should get the electronic weighbridge and vehicle details from RFID system and send the data to CGM application and generate the Royalty pass/trip number from them.
3. With the help of relevant information from CGM server, Royalty pass/trip number with the required details needs to generate from the system on real-time basis.
4. System should be complied the guidelines of CGM, Gujarat.
5. Integration with e-Royalty system should be both the way, where in system should fetch and pass the data as per transaction.

**Future Integration Readiness:**

The solution shall be robust and scalable, enabling future integration with sensors installed on mine excavators to provide real-time information at checkpoints, monitor excavator idling, and guide trucks to appropriate excavators for lignite loading.

**C. Third-Party Audit of the Solution:**

- Ensure compliance with CERT-In Security Policy and Guidelines along with cybersecurity requirements.
- Engage a CERT-In empanelled auditor for a pre-deployment Security Audit.
- Bear the cost of audit and rectification of any non-compliances including security fixes.
- Obtain a Safe-to-Host Certificate prior to Go-Live.

| Activity                          | Responsibility   |
|-----------------------------------|------------------|
| First Round Audit Report          | Auditor          |
| Rectified Solution Submission     | Service Provider |
| Next Round Audit Report           | Auditor          |
| Further Rectification (if needed) | Service Provider |
| Compliance Confirmation           | Auditor          |

Upon notification of solution completion, GIPCL may engage a third-party agency for final certification. Successful bidder shall rectify any deviations promptly.

**D. User Acceptance Testing (UAT)**

Upon deployment of the solution:

- Prepare and submit Test Strategy, Test Cases, and Test Results, including traceability to functional and technical requirements.
- Demonstrate features and functionalities to GIPCL in a staging environment covering all operational scenarios and workflows.
- Support GIPCL in conducting testing activities, including integration and performance validation.
- Rectify all identified issues, bugs, enhancements, or improvements without any additional cost before Go-Live, including validation and integration-related issues.



### **E. Go-Live and Final Acceptance**

- The solution shall be hosted in the production environment after UAT closure with data validation and system readiness checks.
- After 15 days of stable operation and rectification of all feedback, GIPCL shall issue the Go-Live Certificate based on successful performance and compliance.

Acceptance will be based on meeting the following criteria:

- Functional Requirements
- Availability
- Performance
- Security
- Manageability
- Compliance with Standards and Protocols
- Successful commissioning and integration of all the equipment / components covered in the project as per the RFP and subsequently finalized SRSD, configured, customized and used successfully by all the intended users of the GIPCL as per the SLAs and / or mutually agreeable levels.

### **F. Project Documentation**

Successful bidder shall submit the following documentation to GIPCL (in soft copy as well as 02 sets in Hard copy, PDF format only):

- Finalized SRSD Document
- Detailed System Diagrams and Continuity Plans including backup and disaster recovery details
- Hardware and Software Configuration Details
- Troubleshooting Manual
- User and Administrator Manuals
- Operational Procedure Manuals
- Test Plans and Test Reports
- Other Technical Documentation
- Security Audit Reports and Safe-to-Host Certificate

All documents shall be finalized in consultation with GIPCL as per the requirements outlined in the Scope of Work.

### **Part 5: Training and Capacity Building:**

#### **1. Training Delivery:**

- **User Identification:** Successful bidder will identify and classify the users into different types and estimate the number of participants for each training session.



- **Training Formats:** A three-layer training approach (Basic, Walk-through, and Detailed) will be followed for all staff levels, including IT personnel, covering both functional and operational aspects of the system.
- **Training Methods:** The training will involve classroom-based sessions, demo scenarios, presentations, hands-on system usage, and Q&A sessions.
- **Location:** Training will occur at a centralized location or at the mine site.
- **Training Documentation:** Manuals in English, Gujarati, and Hindi will be provided, including user, technical, installation, operational, and maintenance manuals, along with quick reference guides.
- **Additional Training:** If the initial training is found unsatisfactory, additional training and handholding support during the stabilization period will be provided at no extra cost.

This section outlines the extensive requirements for hardware, software, training, and system integration. It emphasizes system scalability, security, and quality control throughout the installation and operational periods. The focus on training and capacity building ensures that all end-users are well-prepared to utilize the system effectively

#### **Part 6: Comprehensive Annual Maintenance Contract (CAMC):**

##### **(i) Minimal, but not limited, responsibilities during Warranty Period:**

- **Warranty Period:** 1 year from the "Go-Live Certificate."
  - **Stabilization Period:** First 3 months are dedicated to stabilization without additional costs to GIPCL.
  - **Software Maintenance:** Bug fixes, error resolutions, and software modifications as required, Minor developments, improvements in the output and input formats, Hand holding the users.
  - **Hardware Maintenance:** Equipment covered for 12 months with repairs / replacements at no extra cost. It is preferable that successful bidder shall maintain 10% spare parts inventory at GIPCL's location to meet SLA compliance.
  - **On-Site Technical Support:** Minimum 2 technical representatives deployed on-site for continuous support.
  - Along with above, the following responsibilities shall also be applicable during warranty period.

##### **(ii) Minimal, but not limited, responsibilities during CAMC Period (the below scope shall apply from 2<sup>nd</sup> to 5<sup>th</sup> years i.e. of 4 Years):**

- **CAMC Duration:** 2<sup>nd</sup> to 5<sup>th</sup> year post-warranty (Mandatory)
- Optional for an additional two (02) years (6th and 7th year)

##### **Hardware CAMC scope:**



- All the Hardware device configuration, firmware updating, re-booting and electronic component testing, problem troubleshooting and repairing shall be covered under CAMC.
- Repair, maintenance, re-alignment/re-configuration and reinstallation of hardware devices which are pertaining to GILDMS, such as RFID Reader, Boom Barriers and RFID based GILDMS Software Applications shall be covered in CAMC.
- Preventive maintenance of all hardware devices, including all parts and accessories, shall be carried out in every quarter and submit the report to GIPCL IT department with details of such abnormality detected during the preventive maintenance.
- In case of any GILDMS hardware and software system down time measured beyond SLA period, then penalty shall be applied as per SLA.
- Service support engineer shall be fixed & installed RFID tags on appropriate position of vehicle's windscreen and post the data in GILDMS software application.
- Service support engineer shall check all GILDMS hardware status in the morning and mark the real status in the daily check list report and submit to GIPCL on daily basis.
- In case boom of the boom barrier damage technical issue of boom barrier then boom is required to be repaired immediately to provide working solution and replaced the boom as per standard specification of installed Boom Barrier.
- In case any hardware will be damaged due to Physically by users (Intentionally or unintentionally), Electrical power surge or Natural calamity will be not covered in CAMC and CAMC vendor has arranged to get damage hardware to be repaired on chargeable basis.
- Application Maintenance: Includes production monitoring, troubleshooting, performance issues, system changes and user issue resolutions.
- VAPT Testing: Successful bidder must cooperate with third-party vendors for vulnerability testing and fixes.
- Grievance & Feedback Handling: Establish a solution for reporting issues, with prompt response times for fault resolution.
- Repair / Replacement: Any damage to hardware, including incidents like vehicle collisions or natural disasters (e.g., lightning), must be repaired/replaced by successful bidder.
- Maintenance & Reporting: Successful bidder will handle preventive and corrective maintenance, submit regular reports (daily, weekly, monthly, quarterly) and ensure equipment cleanliness.

**Software CAMC Scope:**

- Resolve software bugs / issues which is related to GILDMS Weighbridge application, server applications including Web and Entry-Exit Application system, sub systems developed / deployed existing functionality OR services.
- No additional cost shall be applicable for resolving bug / issue of existing installed GILDMS Weighbridge application, server application including Web and Entry-Exit Application system and sub systems.
- CGM's online E-royalty integration related issues
- Successful bidder shall be responsible for carried out changes first in the GILDMS development server with the relevant test data and after testing activities done by GIPCL



team and changes will be transferred in the GILDMS production server post GIPCL's confirmation.

- In case, if Software developed/modified under change request and same problem occurring again or any side effect or bugs observed afterward then it will not be considered for new change request and successful bidder shall resolve issue without any additional cost.
- GIPCL shall not bear the cost pertaining to lodging, boarding, transportation and service support.
- Any configuration changes and functional activities will be carried out by the successful bidder without any additional cost to GIPCL.
- Successful bidder shall submit the detail activity reports to GIPCL as and when any activities have been carried out.
- Successful bidder shall arrange for deploy senior person at GIPCL site while server's changeover will be required in case of GILDMS Database, Application or both servers totally down and required to restore GILDMS operation on top priority. In that case, GIPCL will not bear any additional cost.
- GILDMS Software application support service shall Include following software functions:
  - GILDMS Weighbridge Application
  - GILDMS Web Application
  - Server based GILDMS Entry-Exit Application for Loading / Unloading / Strategic points and Entry-Exit points.
  - CGM's online E-royalty system integration related issue
  - All Supporting software, middleware, firmware supporting software services etc.
- GILDMS database restoration; archival, fine tuning and maintenance support shall be covered during CAMC support.
- GILDMS online database replication server monitoring, configuration, daily backup checking, problem solving and restore database as and when required as directed by GIPCL.
- Updating/upgradation of software patches/firmware pertaining to operating system, database, middleware and development tools which are pertaining to GILDMS application client software and server software.

**Manpower Service support Scope: -**

- Resource Deployment: Minimum of 02 experienced support engineers for the duration of the contract. Support engineers should be having a good experience in specifically RFID hardware technology, Boom Barriers, Network related hardware/software configuration, analysis, testing, debugging and resolving issue on site.
- Resource Replacement: Procedures for replacing personnel due to resignation, medical reasons, or non-performance.
- Safety & Compliance: Successful bidder must ensure all personnel adhere to safety regulations and GIPCL 's standards
- Successful bidder shall provide contact numbers, email addresses, escalation matrix of a dedicated support team. GIPCL shall be kept informed well in advance in case any changes



are being made in the contact details. Successful bidder has to maintain attendance sheet of onsite manpower duly signed by GIPCL's local authority.

- The personnel deployed onsite has to work for issue identification, analysis, find root cause, fine tuning and solution related to hardware and software and reporting to GIPCL's IT Dept. accordingly.
- In case the support engineer posted by successful bidder is not performing up to the desired level in the assigned support function or not maintain discipline or misbehave with GIPCL employees then GIPCL has rights to terminate support engineer and ask for replacement.
- Support engineer shall provide necessary support for reinstallation of the System or part thereof.
- Support engineer shall make sure that operation shall run smoothly during CAMC tenure.
- Deputed manpower shall follow Help Desk System to attend, resolve complaints raised by GIPCL from time to time.
- Normal Working Timing: The working timing is from 08:30 hrs. to 17:30 hrs. for on all working days. In case of any emergency requirements, support engineer shall also require to work on public holidays, Sunday or weekly off or after routine working hours as and when required for maintaining smooth and seamless operation of GILDMS.
- Support engineer shall report to IT Department and work as directed by GIPCL -SLPP IT department for solving the problem. After resolving problem, engineer shall prepare service call report and take the signature of the concerned user in service call report & submit to IT Department.
- Support engineer has to maintain RFID Hardware installed at various Mines location with serial number, location as per given format by GIPCL & should be maintained as per current status of hardware, which shall be submitted to GIPCL - IT Dept. as and when required.
- Support engineers shall follow the Help Desk system on priority for resolving the complaint. However, in convenience complaint received by other means of communication by phone call or e-mail shall be forwarded in Help desk system. Counting of down time shall start from the time of logging the complaint in Help Desk and shall continue till the resolving the issue. SLA shall be counted based on system log time and shall record call on system based on communication.
- Support engineer shall replace, remove or re-install any standby hardware after getting approval from IT officials only before the replace or install standby hardware.
- Separate excel sheet is required to be maintained as per GIPCL given format with all the detail of raised issue, issue attend by, action taken and issue resolved, hardware replaced or any hardware parts replaced with applicable value which are under CAMC / warranty.
- Support engineer shall perform the Preventive Maintenance work of all hardware under CAMC like RFID reader, boom barriers, including connected RFID Reader enclosure etc. on quarterly basis and submit status report.
- Support engineer shall shift, reinstall and remove faulty hardware as directed by GIPCL IT Dept as and when requirement arise without any additional cost. Successful bidder will be responsible for shifting hardware components within the GIPCL mine premises. Weighbridge shifting is excluded. Apart from that new installation, shifting dismantles and



reinstallation other than existing location of GILDMS hardware shall be done on without additional charges, however GIPCL will be arranged necessary prerequisite related to Civil, Electrical and Network at new locations.

- Support engineer has to provide services such as relocation of PCs or adding or removing accessories attachment or other devices / peripherals which are belong to RFID based GILDMS.
- Support engineer has to provide support for installation / re-installation of PC and ensures serial communication working on COM1(RS232) port and print out taking from GILDMS Weighbridge application.
- Support engineer has to check Weighbridges Desktop PC healthiness and take needful action to clean temporary files, checked installed printer, remove unwanted printer if any, create restore point whenever GILDMS Weighbrdge application new version install on Weighbridge, etc. for smooth running of GILDMS Weighbridges and Web application of all Weighbridges.
- In case of any hardware / asset is damaged by support engineers, then successful bidder shall responsible for replacement with the same or higher technical configuration of same OEM.
- Submit daily reports on Issue Analysis, resolved and pending activities.
- Monthly and quarterly review report on the issues resolved and details of Changes handled and resolved.
- Support engineer should carry the identity card with photograph provided by successful bidder.
- Successful bidder shall ensure that, deputed support engineer will not transmit any physical or digital data, confidential information, video, and photograph through remote session, e-mail, and mobile or physically outside of GIPCL. In case suppose person shall caught or prove the guilty with proper evidence then legal action shall be taken by GIPCL against successful bidder.

## **Functional Specifications of the New Digitalized System:**

### **A. Functional Requirements of Hardware Components:**

1. **CCTV:** Cameras for front and top views of vehicles; used to capture vehicle number and storage bed imagery with timestamp-based recording and storage.
2. **RFID Reader with Antenna:** RFID system for vehicle identification with integrated antenna and reliable read accuracy without cross reading across checkpoints and weighbridges.
3. **Boom Barriers:** Installed at checkpoints to control vehicle access with system-driven operation based on validation.
4. **Traffic Lights:** Installed for vehicle management at entry and exit points & weighbridges with automated signalling integrated with system logic.



5. **IoT Controller:** Integrates hardware and software systems for coordinated and automated dispatch management.
  6. **Intelligent IR Sensors:** Ensure accurate vehicle positioning on the weighbridge before weight capture.
  7. **ANPR CCTV Camera:** To detect and validate vehicle number plate through video analytics software and map with system transactions.
  8. PA system with LED display screen for weighbridge
- **Placement and Installation:** Equipment must be installed securely and as per industry standards with proper cable laying, protection, and documentation.

## **B. Functional Requirements for Applications:**

### **1. Dispatch System:**

- Auto-population of vehicle data using RFID.
- Capture of RFID data, camera feed, and weighment details.
- Real-time vehicle tracking and event logging.
- Integration with other applications like ERP for comprehensive data handling.
- Master data registration & management

### **2. Autonomous Weighbridge Operations:**

- Tare and gross weight management.
- Integration with the system for vehicle identification, weight capture, and alerts for over/under loading as per RTO rules.

### **3. General Functionalities:**

- Compatibility with latest version of Microsoft Windows only.
- Secure data handling with anti-virus protection and access control.
- System alerts for unauthorized entry/exit, and for system malfunctions.
- License management for system installation.

### **4. Scalability and Future Integration:**

- The solution should be scalable to include additional sensors and integrate with future mine visualization platforms.

## **C. Hardware and Installation:**

### **1. Hardware Quality and Integration:**

- All hardware components must be up-to-date and not obsolete.
- Proper installation, including site preparation, underground cable laying, and mounting arrangements, is required.

### **2. Maintenance and Longevity:**

- High-quality components should be used, ensuring durability, corrosion resistance, and smooth operation.

### **3. Aesthetics and User-Friendliness:**

- The equipment should be installed with attention to aesthetics and maintainability. Proper survey and testing will be required for installation and operational readiness.



**SECTION I – TECHNICAL SPECIFICATIONS OF PROPOSED HARDWARE AND SOFTWARE:**

➤ **5MP Long-Range Motorized Varifocal Bullet CCTV Camera:**

|    |                                  |  |
|----|----------------------------------|--|
| 1  | Image Sensor                     | 1/2.7” or larger Progressive Scan CMOS Sensor  |
| 2  | Resolution and frame rat         | Minimum 5MP, 2560 x 1920 or higher, 20fps or higher  |
| 4  | Low Light Performance            | Color 0.13, B/w 0.03 Lux, 0 lux with IR or Better  |
| 5  | Iris Type                        | P-Iris / DC Iris / Auto Iris or equivalent automatic exposure control  |
| 6  | Wide Dynamic Range               | minimum 120 dB or better   |
| 7  | Video Compression                | H.265, H.264   |
| 8  | IR Coverage                      | minimum 50 m IR range or better  |
| 9  | Lens                             | Motorized varifocal lens, approx. 10 mm to 47mm or equivalent / better range   |
| 10 | Multiple Streaming               | Minimum triple stream support with configurable resolution, frame rate and bitrate   |
| 11 | Online Connection                | Camera shall support simultaneous live monitoring by minimum 5 users and multi-stream real-time transmission   |
| 12 | Video Privacy & Motion Detection | 8 zones video mask & 3 Motion Detection Zones  |
| 13 | Video Analytics                  | Person and vehicle detection with event rules such as intrusion / perimeter, line crossing, enter / exit, loitering.   |
| 14 | Edge Storage                     | microSD / microSDXC slot supporting up to 1 TB   |
| 15 | Network Protocol                 | IPv4/IPv6, HTTP/HTTPS, DHCP, DNS, NTP, RTSP, RTP, SMTP, SNMP, Unicast / Multicast  |
| 16 | API / Integration                | Camera shall support ONVIF-compliant integration for live video streaming, video configuration, event handling and interoperability with standard VMS/NVR platforms. ONVIF support for remote zoom-focus control, wherever applicable, shall be provided |
| 17 | Ethernet Network Port            | 1 RJ45 10M/100M self-adaptive ethernet port  |
| 18 | Audio Input / Output             | Two-way audio support with minimum 1 audio input and 1 audio output  |
| 19 | Alarm                            | 1x Alarm In and 1x Alarm Out (External/Internal)   |
| 20 | Power Supply                     | Shall support <b>PoE and 12V DC / 24V AC</b> , as per OEM design. Dual power input / power failover shall be preferred   |



|    |                      |   |
|----|----------------------|---|
| 21 | Environmental Rating | Operating temperature minimum -40°C to +60°C, Environmental Rating, humidity up to 95% RH non-condensing              |
| 22 | Protection           | Minimum IP67 weatherproof rating  |
| 23 | Certification        | Relevant certifications such as CE / FCC / UL / BIS / RoHS or equivalent. BIS compliance wherever applicable in India |

➤ **5MP ANPR Bullet CCTV Camera for Weighbridge:**

| Sr. | Parameter                     | Generalized Minimum Specification   |
|-----|-------------------------------|---|
| 1   | Camera Type                   | Outdoor IP-based ANPR / LPR bullet camera suitable for weighbridge, gate entry / exit and vehicle monitoring  |
| 2   | Image Sensor                  | Progressive Scan CMOS sensor, <b>1/2.7" or larger</b> , or better   |
| 3   | Resolution & Frame Rate       | Minimum <b>5MP</b> , 2560 × 1920 or higher, with minimum <b>25 fps or better</b>  |
| 4   | Low Light Performance         | Color: <b>0.1 Lux or better</b> ; B/W: <b>0.03 Lux or better</b> ; <b>0 Lux with IR</b>   |
| 5   | Lens                          | Motorized varifocal lens, approx. <b>2.5 mm to 13 mm</b> or equivalent / better, suitable for number plate capture  |
| 6   | WDR / Exposure Control        | True WDR, minimum <b>120 dB</b> or better, with BLC / HLC / smart exposure support for headlight and backlight conditions   |
| 7   | IR Coverage                   | IR with minimum <b>50 m range</b> or better; Built-in shall be preferred  |
| 8   | Video Compression & Streaming | Support for <b>H.265 and H.264</b> , with minimum <b>triple stream</b> support  |
| 9   | ANPR / LPR Capability         | The camera shall support Automatic Number Plate Recognition (ANPR/LPR) through an embedded algorithm or an equivalent system-based processing solution. The system shall also be capable of detecting vehicles where the license plate is absent or not identifiable. |
| 10  | Vehicle Speed Support         | ANPR capture should support vehicles moving up to minimum <b>60 km/h</b> , subject to proper installation and site conditions   |
| 11  | ANPR Output                   | System shall capture number plate text, vehicle image, plate image, timestamp, direction and event metadata   |
| 12  | ANPR Accuracy                 | License plate capture and recognition accuracy should be <b>98% or better under defined site conditions</b> . Bidder shall submit OEM datasheet / compliance document   |
| 13  | Vehicle Analytics             | Vehicle type classification such as car, van, bus, truck and others shall be preferred. Vehicle colour detection, no-plate vehicle capture and direction detection shall be preferred   |



|    |                               |  |
|----|-------------------------------|--|
| 14 | Edge Storage                  | Built-in microSD / microSDXC card slot supporting local recording, preferably <b>512 GB or higher</b> , with encrypted storage wherever supported  |
| 15 | VMS / Third-Party Integration | Camera shall support integration with third-party VMS / NVR / ANPR platforms. Compatibility with standard VMS platforms such as Milestone, Genetec or equivalent shall be preferred  |
| 16 | API / ONVIF                   | Camera shall support <b>ONVIF-compliant integration</b> for live video streaming, video configuration, event handling and interoperability with standard VMS/NVR platforms. Remote zoom/focus control for motorized varifocal lens shall be supported through ONVIF / OEM API / web interface. |
| 17 | Network Cybersecurity &       | Shall support standard IP protocols including <b>IPv4/IPv6, HTTP/HTTPS, DHCP, DNS, NTP, RTSP/RTP, SMTP, SNMP, Unicast / Multicast</b> , along with TLS / HTTP  |
| 18 | Interfaces                    | Minimum <b>1 × RJ45 Ethernet port</b> , supporting <b>10/100 Mbps or higher</b> . Audio input/output and alarm input/output shall be provided wherever required  |
| 19 | Power Supply                  | Shall support <b>PoE and 12V DC / 24V AC</b> , as per OEM design. Dual power input / power failover shall be preferred   |
| 20 | Environmental Protection &    | Operating temperature minimum <b>-40°C to +60°C</b> , humidity up to <b>95% RH non-condensing</b> , with minimum <b>IP66 or higher</b> weatherproof rating. IP67 shall be preferred  |
| 21 | Certification                 | Relevant certifications such as <b>CE / FCC / UL / BIS / RoHS</b> or equivalent. BIS compliance shall be provided wherever applicable in India   |

➤ **5MP PTZ CCTV Camera for Monitoring:**

| Sr. | Parameter               | Generalized Minimum Specification  |
|-----|-------------------------|--|
| 1   | Camera Type             | Outdoor IP-based PTZ CCTV camera suitable for long-range monitoring in industrial / mining / plant environment                     |
| 2   | Image Sensor            | Progressive Scan CMOS sensor, <b>1/2.7" or larger</b> , or better  |
| 3   | Resolution & Frame Rate | Minimum <b>5MP</b> , 2560 × 1920 or higher, with minimum <b>25 fps or better</b>   |
| 4   | Lens & Zoom             | Motorized zoom lens with minimum <b>30x optical zoom</b> . Additional digital zoom shall be preferred / acceptable where available |
| 5   | Field of View           | Wide-to-telephoto FoV suitable for long-range PTZ surveillance; bidder to submit OEM datasheet                                     |
| 6   | Low Light Performance   | Color: <b>0.1 Lux or better</b> ; B/W / IR mode: <b>0 Lux with IR</b>  |



|                   |   |   |
|-------------------|---|---|
| 7<br>8<br>9<br>10 | IR Illumination<br>PTZ Movement<br>Video Compression &<br>Streaming<br>WDR / Image<br>Enhancement | IR illumination with minimum <b>200 m range</b> or better;<br>Built-in shall be preferred   |
|                   |   | <b>360° continuous pan</b> , suitable tilt range for full-area coverage, variable PTZ speed, presets, patrol / tour / sequence and home position support  |
|                   |   | Support for <b>H.265 and H.264</b> , with minimum <b>triple streaming</b> and configurable resolution, frame rate and bitrate   |
|                   |   | True WDR, minimum <b>120 dB</b> or better, with exposure control, white balance, ROI, BLC / HLC and low-light image enhancement   |
| 11                | Image Stabilization   | Electronic Image Stabilization / Gyro-based stabilization shall be supported or preferred for outdoor PTZ monitoring  |
| 12                | Privacy & Tamper Detection  | Privacy masking and tamper detection such as blackout, whiteout, scene change / FoV change and video blur detection shall be supported  |
| 13                | Video Analytics   | Edge-based analytics for object detection, intrusion / perimeter, line crossing, enter / exit, loitering / dwell, abandoned / removed object, crowd / queue detection or equivalent   |
| 14                | Auto Tracking   | Intelligent auto tracking of person / vehicle / object shall be supported or preferred  |
| 15                | API / ONVIF Integration   | Camera shall support <b>ONVIF-compliant integration</b> for live video streaming, video configuration, event handling, PTZ operations, preset / tour control and interoperability with standard VMS / NVR platforms. <b>ONVIF Profile S and T</b> shall be minimum; <b>Profile G and M</b> shall be preferred |
| 16                | Network & Cybersecurity   | Shall support standard IP protocols including <b>IPv4/IPv6, HTTP/HTTPS, DHCP, DNS, NTP, RTSP/RTP, SMTP, SNMP, Unicast / Multicast</b> , along with TLS / HTTPS, secure firmware upgrade   |
| 17                | Ethernet Port   | Minimum <b>1 × RJ45 Ethernet port</b> , supporting <b>10/100 Mbps or higher</b> , auto-negotiation / self-adaptive. Gigabit Ethernet shall be acceptable / preferred where available  |
| 18                | Audio & Alarm Interface   | Two-way audio with minimum <b>1 audio input and 1 audio output</b> . Minimum <b>2 alarm inputs and 1 alarm output</b> , or equivalent external I/O support  |
| 19                | Power Supply  | Shall support <b>PoE++ / high-power PoE and 24V AC / 48V DC</b> , as per OEM design. Dual power input / power failover shall be preferred   |
| 20                | Environmental Rating  | Operating temperature minimum <b>-40°C to +60°C</b> ; humidity up to <b>95% RH non-condensing</b>   |



|    |               |  |
|----|---------------|--|
| 21 | Protection    | Outdoor-rated rugged housing with minimum <b>IP66 or higher</b> weatherproof rating and <b>IK10</b> vandal resistance. IP67 / NEMA 4X shall be preferred |
| 22 | Certification | Relevant certifications such as <b>BIS / CE / FCC / UL / RoHS</b> or equivalent. BIS compliance shall be provided wherever applicable in India           |

➤ **Video Recording Server (NVR) for VMS:**

| Sr. | Parameter                  | Minimum / Required Specification  |
|-----|----------------------------|---|
| 1   | System Type                | Enterprise-grade rack-mount NVR / VMS recording server suitable for 24x7 continuous operation                               |
| 2   | Camera Capacity            | Minimum 128 Full HD IP cameras per server/appliance, scalable for higher resolution cameras                                 |
| 3   | Video Codec Support        | H.264, H.265 or latest equivalent compression standards   |
| 4   | Recording Throughput       | Minimum 650 Mbps aggregate video recording/streaming throughput or higher   |
| 5   | Supported Resolution       | Support Full HD, 4MP, 5MP, 4K and higher IP camera streams  |
| 6   | Recording Modes            | Continuous, scheduled, event-based and manual recording   |
| 7   | Event / Alarm Support      | Support recording triggers from motion, video loss, network loss, alarm input, analytics/event triggers and PTZ actions     |
| 8   | Playback                   | Multi-camera synchronized playback with search by time, camera and event  |
| 9   | Storage                    | Minimum 72 TB storage, hot-swappable HDDs; final storage sizing to meet required camera count, bitrate and retention period |
| 10  | RAID                       | Hardware/software RAID support with RAID 1/5/6 or better, with disk failure protection                                      |
| 11  | OS Drive                   | Dedicated SSD-based OS/application drive with redundancy preferred, Enterprise-grade Intel Xeon / AMD EPYC or higher.       |
| 12  | Processor                  | Server-grade multi-core processor suitable for 128-camera VMS workload  |
| 13  | RAM                        | Minimum 32 GB RAM, expandable   |
| 14  | Network Interfaces         | Minimum dual 1GbE ports; 10GbE support preferred/required based on throughput design  |
| 15  | Client Access              | Support access through desktop/web client and mobile app for Android and iOS  |
| 16  | Concurrent Users / Clients | Support multiple simultaneous users/clients; bidder to specify maximum supported live/playback clients                      |
| 17  | Display Output             | Local display output for monitoring/configuration, minimum HDMI/DP/VGA equivalent   |



|    |                  |  |
|----|------------------|--|
| 18 | Audio            | Support audio recording and two-way audio where compatible cameras/devices are used        |
| 19 | Alarm I/O        | Integrated or external alarm input/output module support                                   |
| 20 | Power Supply     | Redundant hot-swappable power supply preferred for high availability                       |
| 21 | Power Input      | 230V AC, 50Hz or universal AC input suitable for Indian site conditions                    |
| 22 | Compliance       | Applicable safety, EMC and regulatory certifications such as CE/FCC/RoHS/BIS or equivalent |
| 23 | Operating System | Server-Windows.<br>Client-Windows/Linux.<br>Mob App – Android & iOS                        |

➤ **Video Management Software (VMS) with Camera & Client license:**

The Video Management System (VMS) will be used to access live and recorded video from multiple recording servers and IP cameras, as well as data from integrated subsystems connected to both local and wide area networks, The VMS software shall have a client/server-based architecture that can be configured as a standalone VMS system with the client software running on the server hardware and/or the client running on any network-connected TCP/IP workstation. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers. Multiple servers shall also be able to simultaneously provide live and/or recorded video to one or more workstations.

**Standard & Certifications for VMS:**

- ISO / IEC 14496 – MPEG-4
- ISO / IEC 14496–10, MPEG-4 Part 10 (ITU H.264).
- ISO / IEC 10918 – JPEG

**Functionality of VMS:**

- ✓ The VMS shall be support with minimum 512 nos. of thick clients and 16 Web Client, 16 mobile clients per NVR/Server, and There shall be no charge for concurrent clients connecting to the VMS.
- ✓ The VMS shall provide effective monitoring of video from IP cameras, IOTs, encoding devices, two-way audio and data in real time over local and wide area networks and shall provide interactive and multi-level mapping as well.
- ✓ The VMS shall provide single-screen administration across multiple servers and systems, including global configuration and monitoring of camera, encoder, and storage settings across the enterprise and shall provide simultaneous administration of all users on multiple servers.
- ✓ The VMS shall provide configuration of user authentication using LDAP/Active Directory features of the network.
- ✓ The VMS shall provide e-mail and text (SMS) notifications using SMTP Server configuration or Gateway.
- ✓ The VMS shall provide automatic identification and IP address assignment of compatible IP cameras and encoders with status display, the option to enable an embedded DHCP server to



assign camera addresses via DHCP, it shall provide provisioned as a service without requiring any application to be running to operate and it shall also provide 2-way audio support between server, client, and cameras.

#### **Architecture:**

- ✓ The VMS shall provide a client/server-based architecture that can be configured as a standalone system, with the option to run the VMS on both Windows and Linux simultaneously. The client software shall be compatible with Windows, Linux, Android, and macOS, ensuring equal functionality on server hardware and/or any network-connected TCP/IP workstation.
- ✓ The VMS can be freely downloaded from the Manufacturer's official website at no cost, without the need for login credentials. This emphasizes the ease and accessibility of obtaining the VMS, ensuring that customers can download it effortlessly without any dependencies or the need for support from the OEM or Contractor, if required.
- ✓ The VMS software shall be capable of running directly on an IP camera, eliminating any dependency on a server. This will enable the IP cameras to function as both a server and an IP video recording device.
- ✓ The VMS shall provide view live video and audio, recorded video and audio and be able to configure the complete system all from a single application and Workstation.
- ✓ The VMS shall offer free both Web and a Mobile web Client, each operating without the need for any software installation. The both clients will include features such as live video viewing, recorded video playback, PTZ (pan-tilt-zoom) camera control, trigger activation, and support for simultaneous connections to multiple VMS servers. The transcode/decoding JPEG, H.264 and H.265 streams video into a JPEG file to optimized for browser screen compatibility before transmitting it to the client browser sent by VMS Server.
- ✓ The VMS shall provide free mobile apps for iOS and Android, offering features such as remote viewing of live and recorded video through the video server, PTZ control, and the ability to monitor and activate alarms and events from the mobile device. Additionally, the mobile apps will support simultaneous interaction with multiple NVRs, servers, and storage devices, as well as the monitoring of events configured by a client workstation as well.
- ✓ The VMS software shall enable the simultaneous operation of multiple client applications on a single workstation, supporting at least 12 monitors, with each monitor displaying one client application.

#### **Operating System:**

The VMS server software shall be OS-agnostic and support installation on Latest Microsoft Windows and Linux OS and Client software access via a native application for Windows, macOS Android and Linux as well as a web-based client for remote access through browsers such as Chrome, Firefox, MS Edge, and Safari.

#### **Camera & Device Support:**

The VMS shall be pre-integrated with over 100+ different camera makes at the API level & ONVIF profile to ensure seamless integration between the cameras and the VMS software. Additionally, it



shall support integration with more than 6,000+ cameras models from different camera makes and shall be listed on the VMS's supported devices list as well.

### **Recording**

The VMS shall ensure continuous, uninterrupted recording of all video and audio and also record based on motion detection within a defined region, offer configurable pre & post -motion recording, and support video recording driven by metadata from IP cameras and integrated subsystems such as access control and intrusion alarm systems as well. The VMS shall support inbuilt time-lapse recording for capturing video at configurable intervals, providing a condensed view of longer time periods.

**Video Bookmarking:** A video bookmarking feature shall enable tagging, naming, and saving of video clips, while the VMS will allow organizing related bookmarks into cases.

**Recording Storage:** The VMS shall provide for recording of video as well as associated audio and data files, as determined by rules, events, or manual selection.

The VMS shall support recording video based on the following classifications:

- ✓ Free run video (all video).
- ✓ Time-lapse video @ 1 frame per second or less.
- ✓ Video associated with motion events as detected by the device, Video associated to triggered alarm states as configured by Event Linking,
- ✓ The VMS shall support the configuration of unique weekly recording schedules per camera,
- ✓ The VMS should also support a graphical representation of drive status for associated RAID-based storage.
- ✓ The VMS should be capable of automatically recording video locally on the cameras SD card in the event of a network storage connectivity failure. Once the connectivity is restored, these locally recorded videos should seamlessly merge with the network storage recordings, ensuring no manual intervention is required to transfer the cameras SD card-based recordings to the network storage.

**Storage Types:** The VMS shall support local HDD storage and iSCSI extended storage, allowing a remote storage unit to function as a local drive.

**Storage Retention:** The VMS shall support configurable "at most" rules to automatically delete video after a set time, and "at least" rules to prioritize preserving older video by deleting newer footage from other cameras. Minimum retention time shall be of 01 month.

**Video Archiving:** The VMS shall support archiving of video, audio, and data based on rules, events, or manual selection, with customizable archive targets for specific cameras and video. It shall support CIFS and NFS network shares for storage, allowing archiving to multiple locations based on camera, event type, or schedule. Continuous or scheduled archiving with weekly and customizable schedules shall be supported.

**Events: -**

- ✓ The VMS software shall trigger actions based on events such as video motion, video loss, ASCII input (including POS data), device/system health, IP camera connection, VMS display triggers, analytics rules, and date/time.
- ✓ The VMS software shall trigger actions based on events, including video recording, output triggers, email alerts, SSL/TLS encryption, CD/DVD burning, and camera PTZ preset calls.
- ✓ VMS Shall support users have the ability to create rules based on a combination of events. The VMS client shall be configurable to automatically switch views on any event within the event monitoring function.
- ✓ The VMS shall support search and playback from the client interface, allowing users to search and view recorded video, audio, and events from multiple cameras simultaneously. Users can search by time, date, video source, image region, or event type, with results displayed on a clickable timeline. It shall support synchronized audio and video playback, motion-based frame searches, visual thumbnail search, and zooming into specific time ranges. Archived video will be seamlessly included in any search, eliminating the need for separate archive searches.

**Video and information display:**

- ✓ The VMS shall provide a live display mode for viewing live video, audio, POS data, and alarms. It will save the location of video, audio, maps, and event views, accessible in both live and recorded modes, and support automatic cycling through saved views for a video tour with configurable dwell times.
- ✓ The VMS shall support multiple video streams per device, utilizing OpenGL and Direct3D for video rendering. It will leverage the client workstation's GPU for video decoding and allow viewing of cameras in logical groups and preset views.
- ✓ The VMS Shall support the suspect tracking functionality to links specific areas of a live video panel with other cameras, tracking suspects or objects across multiple views. Cameras with tracking show an icon, and areas are marked with a color overlay. Double-clicking the overlay switches to the linked camera.
- ✓ The VMS shall allow the viewing of live video from guard tour sequences. The VMS shall support the use of a panoramic lens on an analog or IP camera. The VMS client shall de-warp the image on both live and recorded video.
- ✓ The VMS shall be capable of organizing the camera video view panel in various customized layout patterns and support viewing up to 48 cameras (8x6) on widescreen 16:9 display panels.
- ✓ The VMS shall provide the ability to instantly push selected cameras, layouts, tours, groups or entire views to another client monitor, such as a public view monitor or a video wall, with the additional capability, tie push to user permissions, selectively disable receiving of pushed views.
- ✓ The VMS shall display overlay controls when hovering over a camera in live view. These controls will allow customization of text color, font, style, transparency, and location, and include options for audio inputs/outputs, alarm outputs, input events, soft triggers, serial data, and manual recording.



- ✓ System information shall be capable of display on a single page to include status of all recording servers and cameras alarms, events, MAC addresses, camera configuration, format and frame rate from each individual camera.
- ✓ The VMS shall display notifications to users for essential setup tasks, including configuring motion on all cameras, changing the default password, setting up email notifications, configuring multi-streaming, and adjusting the time delta between the server and camera.

#### **Pan Tilt Zoom (PTZ):**

The VMS shall allow authorized users to control PTZ cameras with adjustable speed for panning, tilting, and zooming. Non-PTZ cameras can be digitally panned, tilted, and zoomed in live and recorded modes. Control methods for PTZ cameras include PTZ graphics windows, live overlay icons, keyboard controls, presets, digital PTZ, and USB joystick or mouse control.

#### **Mapping;**

The VMS shall provide map functionality for authorized users, displaying video sources and their status, with adjustable FOV visualization for cameras. It shall support nested maps, sending event alerts to parent maps and changing icon colors. Soft triggers can be placed, viewed, and activated directly from the map.

#### **Export:**

The VMS software shall support exporting video, maps, POS data, and audio files without overwriting previous exports, with supported formats including .exe, .avi, .ps, .mov, and .psx. It shall allow exporting video segments from specific cameras or audio inputs to a CD or DVD upon an event. The VMS standalone player shall package exported video into a single executable file and use a keyed Hash Message Authentication Code (HMAC) to verify the integrity of the video.

#### **Administration and Configuration:**

The VMS shall support user administration with authentication via Active Directory, LDAP, or username/password, and allow permission configuration across multiple servers. It shall enable granular permissions through custom user groups and maintain an audit trail of logins, actions, video views, and exports.

#### **Health Dashboard:**

- ✓ The system shall offer a browser-based dashboard to monitor the health and events of storage servers and connected cameras, including video loss, motion detection, camera disconnection, camera analytics, and recording alarms.
- ✓ The system shall provide a browser-based dashboard to monitor health and events for storage servers and connected cameras, including alarms for device failure, temperature, network activity, power supply, storage, updates, and security integration.
- ✓ Provides a configurable schedule to perform server tasks. Schedule server software updates. Schedule server configuration backup from a single server or in bulk. Schedule server configuration restoration from a single server or in bulk. Schedule maintenance for a server or multiple servers. Import a license to a server or multiple servers.



- ✓ The system shall allow for camera inspection. The system shall allow an image from a camera connected to a monitored server to be stored as the reference image. The system shall compare a reference image to a current image on demand.
- ✓ Reports: Allows creation of reports to: View and manage a list of unacknowledged events. View a list of open events. Search for specific events based on various criteria. Allows events to be searched based on various criteria, including event time, event type, and associated cameras and servers. Permits viewing of server licenses.

#### **Video Analytics:**

- ✓ The Video Management System (VMS) shall support Video Analytics such as Object Detected, Perimeter, Linger, Dwell, Abandoned / Removed, Enter, Exit, Crowd, Queue Object. In case of cameras edge-based Video analytics, it should be seamlessly integrated over API/SDK with offer centralized VMS platform.
- ✓ The Video Management System (VMS) shall support AI/ML Video Analytics based such as AI Object Classifications: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class. AI Object Sub-Classifications: Person Clothing Color, Vehicle Color. In case of cameras edge-based Video analytics, it should be seamlessly integrated over API/SDK with offer VMS platform.
- ✓ The Video Management System (VMS) shall support Alarm trigger from cameras such as Motion detection, AI video analytics, Alarm input, Blur Detection, Tamper Detection, Pre-Alarm Recording & MP4 Recording Format and same should be notified in the Web Client and Mobile app.
- ✓ The Video Management System (VMS) shall support Backfill functionality of the cameras - In the event of failure of connectivity to the network storage the camera shall record video locally on the cameras SD card automatically and after the connectivity is restored with central Video Recorder, these recordings shall be automatically merged with the Video Recorder such that no manual intervention is required to transfer the SD card-based recordings to Video Recorder.
- ✓ Updates – The manufacturer shall deliver timely VMS software updates and provide the ability to update directly via network connectivity. The software shall support updates without losing configurations and allow updating from within the software or through an executable program.

#### **Redundancy & Failover:**

- ✓ The VMS shall provide failover capabilities to ensure continuous video recording and operation in case of server failure. Dual-server (N+1) failover configurations shall be supported, ensuring uninterrupted operation across all video streams.
- ✓ The system shall allow the configuration of servers for failover. Server may be configured as a spare. Spare server may be added to a Failover Group. Failover Group will include servers covered by the spare to failover to in the case of failure. On server recovery, the spare shall failback and return to spare status.



### **Integration & API Support:**

The VMS shall support integration with external security systems such as access control, intrusion detection, fire alarms, and building management systems. The VMS shall provide RESTful APIs and SDKs for custom integrations with other systems, such as custom alarms, reporting, or video analytics systems.

**Audit Report:** It can record an audit trail of when users log in that shows what changes they have made, what video they have viewed and what they have exported

**Database compatibility:** standard relational databases must be supported

**Virtualization:** VMS software should support Virtualization & has been tested to run in VMware and Microsoft Hyper-V environments and likely runs in any virtualization environment that presents virtual NIC MAC addresses through the virtualized operating system

### **Cloud Compatibility & Scalability:**

- ✓ The VMS must be Cloud ready from the day one and Subscription must be available as on required. The VMS shall have a Cloud-to-Client (C2C) based architecture.
- ✓ It should be scalable to Cloud Storage & shall also be able to simultaneously provide live and / or recorded video to one or more Client workstations and Subscription must be available as on required.
- ✓ VMS shall be scalable to Utilize Cloud storage and Subscription must be available as on required. VMS shall be able to Customize cloud storage by choosing specific cameras to upload video to the cloud.

### **Cyber Security:**

- ✓ The VMS software shall provide a configuration option to require 2 users enter unique passwords to authorize tasks involving the viewing of video.
- ✓ The VMS software shall support SSL/TLS encryption.

### ➤ **Video Analytics Management Software (VAS) with ANPR support with Client licenses for vehicle's License plate recognition (LPR) detection & validation**

- The Video Analytics shall offer a suite of analytics rules with Artificial Intelligence to provide automatic detection of a range of motion and non-motion behavior of persons, objects and vehicles.
- VAS shall be compatible with latest Microsoft windows/Linux operating system
- VAS should have a AI/deep-learning based analytics
- The system should automatically detect a vehicle in the camera view using video detection and activate vehicle license plate recognition.
- Proposed intelligent AI Based Video Analytics Software (VAS) shall have the capability to provide various alarms & triggers in both audio/ visual mode and should notify the Authorities if any incidence/violation happens.
- VAS shall be accessible and managed via standard web browsers: MS Edge, Chrome etc.
- VAS shall support cameras with standard RTSP (real time streaming protocol).



- VAS shall support applicable analytics rules per camera/stream.
- VAS Shall support following additional analytic features in each device
  - Video Search. Analytics listed below should be based on deep learning AI models
  - Intrusion Detection (Including smoke & fire detection)
  - Face Recognition/Face Search
  - People Counting
  - Abnormal speed detection
  - Vehicle Counting (including Vehicle moving in wrong direction, illegal parking, outside Speed limits)
  - Object Counting (optional)
  - Crowd Detection
  - License Plate Recognition in the Parking Lot, City Road and Highway modes
  - Vehicle Make & Model Recognition (optional)
  - Personal Protective Equipment (PPE)
  - Object Left Behind (optional)
  - Boundary violation (No go zone)
- VAS shall have following in-built features under system administration & Management:
  - Camera Management
  - User management & Access control
  - Hardware System information
  - Exportable configuration file
  - Backup/Restore of system configuration
  - Time Zone and NTP server configuration
  - Email notification and SMTP configuration
  - System Log and application log monitoring
  - Privacy protection as per Indian compliance
  - Video search for different object type
  - Audit trail
  - Alert management
  - VAS hot-fixes updation without additional cost
  - Floating License management enable flexibility in assigning LPR functionalities, (preferred)
  - Cyber security requirements as per Cert-in guideline
  - integration to existing video surveillance using RTSP/ONVIF/API
  - Provide actionable intelligence, forensic analysis
  - Business hour Support Service as per mutually agreed SLA
  - Centralized Metadata Search
  - Dashboard / Reports
  - Data Exporting Tools
  - 3rd Party Integration



- The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms & Artificial Intelligence to turn video into Actionable Intelligence.
  - The system shall facilitate creating multiple zones and lines in a single scene to trigger various alerts
  - The system shall allow the configuration of applicable rules and manage them
  - The system shall enable detecting rules in the defined areas (zones/ lines)
  - The system shall allow classification of different objects like Vehicles and people/Person.
  - The Proposed VAS should allow to add, edit, delete or disable and enable Policies
  - The AI Based Video Analytics Platform Must Support for Analytics use-cases to be Deployed & can be applied in full HD-1080P resolution (additional lower stream support preferred) & Streams Supporting H265, H.264 compression Standards and 25fps.
  - The AI Based Video Analytics Platform Must have the option to run analytics in silent mode.
  - The VA shall support Applying & performing of video analytics from any camera supported by the VMS.
  - The Video Analytics Platform shall be able to Perform on Both offline Pre-Recorded Video and Real time Live Video Streams.
  - The Video Analytics must have the Ability such that alerts can be searched and categorized based on this information. i.e. Timestamp (date & time), Alert Name, Alert Type, Camera Name, Camera ID.
  - The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence. The AI based Video Analytics system shall consist of video- processing & analytics engine that works seamlessly both on saved videos or camera streams in real-time and provide events to the user based on the use-case basis. The system shall be compatible with all ONVIF compliant IP cameras with H.264/H.265 video decoding.
  - It should be possible to configure video analytics on any of the cameras from the Video Management System Application. No Separate GUI or Application requirement to Configure the Video Analytics Use-Cases will be preferred.
  - The VMS and VA must avoid duplicate operational effort wherever feasible using integration.
  - Installation shall be On Premises.
- **Requirements for Automatic Number Plate Recognition (ANPR)**
- The ANPR Application shall automatically detect the license plate in the captured video feed in real-time.
  - ANPR Application shall be designed to work for 24x7 unattended operations.
  - The system shall have options to search historical records for post event analysis by the color with license plate and date & time combinations.
  - ANPR Application shall perform OCR (optical character recognition) of the license Plate characters (English alpha-numeric characters in standard fonts).
  - ANPR Application shall store JPEG image of vehicle and license plate and enter the license plate number into database along with date and time stamp and must have ability to call 3<sup>rd</sup> party APIs for each event with required event data.
  - ANPR Application should support for Search for Vehicle based on the Following Criteria:



- (a) full or partial number of the license plate
  - (b) color of the vehicle (optional)
  - (c) Speed of the vehicle (optional)
  - (d) classification of vehicle (optional)
  - (e) Camera Location
  - (f) Event Type
- ANPR Application should support for searching for similar plates across Single or multiple cameras.
  - ANPR Application should support Indian HSRP and commonly observed plate formats.
  - ANPR shall detect and recognize license plates on moving or stationary vehicles
  - ANPR shall detect and validate license plate within range as per camera placement and lens design; bidder to specify.
  - ANPR Application should Compare against Watch List database to detect any matches.
  - VAS shall match detected vehicle number plates with saved list.
  - VAS shall support live view of vehicle Entry/Exit.
  - VAS shall read license plate images at slight angle.
  - ANPR Application should support for Real-time alerts on Plate matches
  - ANPR Application should Detect, Recognize and Search License Plates.
  - It should Enable security professionals to define specific number plates and get alert for pre-defined number plates.
  - Allows users to track vehicles across multiple cameras or locations to identify potential threats.
  - Should generate an alarm in case of any identified vehicle plate
  - Enables automated matching against a watch list with real time alerting like Set alert for specific lists of license plates , Set alert for license plates NOT in any list , Show the detected event on the map based on camera's location , Record detected license plates with time stamps and camera names in history for easy review , Enable the system administrator to add multiple blacklists/whitelists , Enable adding captured license plate to existing or new lists
  - The system Graphical User Interface should support English Language & the Graphical User interface (GUI) should provide following information:
    - 1) Image of the Complete vehicle,
    - 2) Image of the Cropped Number Plate,
    - 3) Text conversion of number plate after using OCR (Optical Character Recognition) technology,
    - 4) Date and Time of offending vehicle,
    - 5) Records and logs all License Plates at a scene for forensic investigations.
  - The Min. Video resolution Supported should: Min. 1080p & the Max. Video Resolution Supported should be Up to 4K Resolution.
  - Number plate image contrast should be high at different times of day, especially at night time. The image needs to have minimal noise at low light situations.
  - System should able to give vehicle image with license plate image



- The system shall store the vehicle license number into a relational database along with date timestamp and Camera details, bidder to include required database/license components.
- The ANPR Application must be integrated with VMS or third-party VMS at central level. Real-time alerts on Vehicle violation detection, Detailed Reports of violations.
- The ANPR Application shall have more than 95% Accuracy for all different types and classes of vehicles. Accuracy to be demonstrated during site acceptance test under agreed conditions.
- The ANPR Application should Detects for both Standardized (High Security Registration Plates) and Non-Standardized plates.
- The ANPR Application should have an Intuitive Graphical User Interface (GUI) & user-friendly menu driven Interface for the Configuration & Viewing the ANPR Application.
- The ANPR Application should be a Web Based Application, so that it can Accessed on a Standard Web Browser from any System within the LAN.
- The System shall have Health Check Dashboard to Monitor the Complete Server/LPU Health Status. Alarm shall be generated if CPU, RAM Exceeds the Operating Threshold & should be notified to the Operator in the form of Toggle Notification.
- The ANPR Application must have the Capability to Play the Recorded Video Clip of the Violation Event within the Client GUI Application itself.
- The ANPR Application must have the Capability to Export Pre & Post Recording of the Violation Event in Standard Video Formats like mp4 etc.
- Video Analytics software must be integrated with major third-party VMS through standard APIs/SDKs, where required.
- The ANPR Application to be Audited from Cert-In Empaneled Auditors for Security Audit Certificate as per OWASP Guidelines to Mitigate Cyber Security Attacks, before go-live.
- System shall have a sophisticated rule-based engine with powerful analytics capabilities that provides automatic event notification.
- The surveillance system needs to have the capability to deploy intelligent video analytics software on any of selected cameras. This software should have the capability to provide various alarms & triggers.
- Warranty & Support for VAS: Minimum 3-year warranty support for Annual maintenance, version upgradation & hot-Fixes.

➤ **Technical Specification of Video Analytics server hardware**

| Sr. No. | Parameter        | Description   |
|---------|------------------|---|
| 1       | Form Factor      | Enterprise rack-mounted server, 2U or suitable equivalent   |
| 2       | OS Compatibility | Latest Windows Server / Linux Server compatible   |
| 3       | Processor        | Enterprise-grade Intel Xeon / AMD EPYC equivalent or higher. minimum 16 physical cores / 32 threads, ECC DDR5 memory support, and adequate PCIe capacity for GPU, storage, and network expansion. CPU shall be suitable for video stream ingestion, decoding support, AI analytics coordination, and multi-camera video analytics workload. |



|    |                  |  |
|----|------------------|--|
| 4  | GPU              | AI-capable high-performance NVIDIA / equivalent GPU suitable for video analytics |
| 5  | RAM              | Minimum 64 GB ECC RAM  |
| 6  | OS Storage       | Minimum 2 × 256 GB SSD/NVMe in RAID 1  |
| 7  | Video Storage    | Minimum 10 TB usable enterprise storage, hot-swappable and scalable              |
| 8  | RAID             | Hardware RAID support for RAID 1, 5, and 6                                       |
| 9  | Video Throughput | Minimum 650 Mbps aggregate video throughput                                      |
| 10 | Camera Support   | Minimum 64 camera channels or higher   |
| 11 | Codec Support    | H.264 and H.265 mandatory; MJPEG and AV1 preferred                               |
| 12 | Network          | Minimum 2 × 1 Gbps Ethernet; 10 Gbps preferred                                   |
| 13 | Power Supply     | Dual hot-swappable redundant power supplies                                      |
| 14 | Compliance       | CE / FCC / equivalent regulatory compliance                                      |

➤ **Database Server:**

| Sr. No. | Parameter  | Minimum Specification  |
|---------|--|--|
| 1       | Form Factor  | Enterprise rack-mounted server   |
| 2       | Processor  | Enterprise-grade Intel Xeon / AMD EPYC equivalent or higher server processor. Minimum 12 physical cores / 24 threads, ECC DDR5 memory support, and suitable performance for database transaction processing, indexing, reporting, and concurrent application access. |
| 3       | RAM  | Minimum 32 GB ECC RAM, scalable for future expansion   |
| 4       | OS Storage   | Minimum 2 × SSD/NVMe in RAID 1 for operating system  |
| 5       | Database Storage                                   | Minimum 6 X 1TB Enterprise-grade hot-swappable SAS/SSD HDD storage, scalable as per database size and performance requirement  |
| 6       | RAID Support                                       | Hardware RAID support for RAID 1, 5, 6, and 10 with cache protection   |
| 7       | Network  | Minimum dual Ethernet ports; 10GbE preferred   |
| 8       | Cooling  | Redundant hot-swappable fans   |
| 9       | Power Supply                                       | Dual hot-swappable redundant power supplies  |
| 10      | Operating systems supported with required licenses | Latest license version of Windows Server and standard database platforms such as MS SQL / PostgreSQL / MySQL   |
| 11      | Remote Management                                  | Dedicated remote server management interface preferred   |
| 12      | Energy / Compliance                                | 80 PLUS / ENERGY STAR / equivalent compliance preferred  |

➤ **Application Server:**



| Sr. No. | Parameter  | Minimum Specification  |
|---------|--|--|
| 1       | Form Factor  | Enterprise rack-mounted server   |
| 2       | Processor  | Intel Xeon / AMD EPYC equivalent or higher server-class processor with minimum 12 cores / 24 threads           |
| 3       | RAM  | Minimum 32 GB ECC RAM, scalable for future expansion   |
| 4       | OS Storage   | Minimum 2 × SSD/NVMe in RAID 1 for operating system  |
| 5       | Application/Data Storage                           | Minimum 5 X 1TB Enterprise-grade hot-swappable SAS/SSD HDD storage, scalable as per application requirement    |
| 6       | RAID Support                                       | Hardware RAID support for RAID 1, 5, 6, and 10 with cache protection   |
| 7       | Network  | Minimum dual Ethernet ports; 10GbE preferred   |
| 8       | Cooling  | Redundant hot-swappable fans   |
| 9       | Power Supply                                       | Dual hot-swappable redundant power supplies  |
| 10      | Operating systems supported with required licenses | Window based latest license version operating System, license copy of front end, middleware development tools. |
| 11      | Remote Management                                  | Dedicated remote server management interface preferred   |
| 12      | Energy / Compliance                                | 80 PLUS / ENERGY STAR / equivalent compliance preferred  |
| 13      | Energy-efficiency compliance                       | Compliant with 80-PLUS and ENERGY STAR energy-efficiency standards   |

Final server sizing shall be validated by the bidder based on workload, number of users, integration load, transaction volume, storage requirement, and future scalability.

➤ **BOOM BARRIER SYSTEM**

○ **IoT Based Motorized Boom Barrier with 6 Meter Arm:**

| Sr. | Parameter                   | Description                |
|-----|-----------------------------|----------------------------|
| 1   | Mechanism                   | Electro-Mechanical         |
| 2   | Maximum Boom Barrier Length | up to 6 Mtr                |
| 3   | Construction                | MS Powder Coated or better |
| 4   | NOISE                       | <70 dB                     |



|    |                       |  |
|----|-----------------------|--|
| 5  | OPERATING TEMPERATURE | -20~+55  |
| 6  | PROTECTION LEVEL      | IP-55  |
| 7  | Controller (PCB)      | IP-68  |
| 8  | MOTOR TYPE            | DC Brushless   |
| 9  | MOTOR POWER SUPPLY    | 24 VDC   |
| 10 | POWER SUPPLY to SMPS  | 110~220VAC 50Hz  |
| 11 | Housing               | Steel or Higher  |
| 12 | Operation             | 1.5 SECONDS FOR 1-3 MTRS<br>5.0 SECONDS FOR UP TO 6 MTRS |

○ **IR through Beam Sensors:**

| Sr. | Parameter                   | Description  |
|-----|-----------------------------|--|
| 1   | Power Supply                | 12 - 33Vac / 15 - 35Vdc  |
| 2   | Supply Protection Circuitry | Protected against reverse polarity and transient voltages  |
| 3   | Output Protection Circuitry | Protected against false pulse on power-up and continuous short circuit of outputs.<br>Short circuit protection at elevated temperature may require a power cycle to reset. |
| 4   | Operating Conditions        | -20 °C to +60 °C   |
| 5   | Relative Humidity           | 95% at +50 °C maximum relative humidity (noncondensing)  |
| 6   | Environmental Rating        | IP 54  |

○ **Fixed Long Range UHF RFID Reader with in-built/integrated antenna for outdoor open environment:**

| Sr. | Parameter                | Description   |
|-----|--------------------------|---|
| 1   | Physical Characteristics | 440mmx440mmx50mm/ As per OEM Standard   |
| 2   | Weight                   | 1 Kg/ As per OEM Standard   |
| 3   | Read Range               | 0 – 12 meter or higher  |
| 4   | Write Range              | 0 - 6mtr  |
| 5   | Read Rate                | Software Programmable, Average Reading per 64 Bits : <6ms   |
| 6   | Read Mode                | Timing or Touch, Software Programmable  |
| 7   | Operating Mode           | Answer, Active, Trigger   |
| 8   | Antenna                  | Built-in 12dBi linear/circular polarized antenna support  |
| 9   | Air Interface Protocol   | ISO18000-6B, EPC Class 1 Gen2 (ISO18000-6C)   |
| 10  | Frequency Range          | ISM865~868MHz IND   |
| 11  | Environment              | Operating Temp: -10oC to +55oC<br>Storage Temp: -20oC to +75oC<br>Humidity: 5% RH - 95% RH non-condensing |
| 12  | Connectivity:            | Ethernet / Wiegand  |
| 13  | Power Supply:            | DC+9V direct current power (power adapter)  |
| 14  | Reading Clue             | Buzzer and LED  |



|    |                      |                                      |
|----|----------------------|--------------------------------------|
| 15 | RF Power Output      | 0-30dBm (adjustable)                 |
| 16 | Input / Output Ports | Two Outputs (Relay); One Input (TTL) |
| 17 | Protection Class     | IP 67                                |

○ **UHF RFID Tag**

| Characteristics | Description   |
|-----------------|---|
| Frequency       | 865–868 MHz   |
| Read Range      | Up to 10 meters   |
| Memory          | EPC 96 bits   |
| Protocol        | ISO/IEC 18000-6C, EPC Global  |
| Durability      | Designed for outdoor environments & Standard industrial environment,<br>Destruct on removal – Temper Proof. |

○ **Intelligent Controller of Weighbridges:**

| Sr. | Parameter                           | Description  |
|-----|-------------------------------------|--|
| 1   | Usage                               | To connect/interface stabilizing sensors   |
| 2   | Processor                           | 8 Bit microcontroller or better as per design requirement  |
| 3   | Connectivity                        | RS232 and TCP/IP   |
| 4   | I/O                                 | Minimum 16   |
| 5   | RFID Reader Interface               | RS 232 or Wiegand  |
| 6   | Number of RFID Reader support       | Minimum 2  |
| 7   | Interface with Digitalizer          | RS232 / USB  |
| 8   | Number of Boom Barrier Interfaces   | 2  |
| 9   | Number of Position Sensor           | Min 3 Pair of Sensors (3*3)  |
| 10  | Self-Test Feature                   | Controller need to have a Test Interface of all system components  |
| 11  | Interface for Display and PA system | RS232/TCP/IP   |
| 12  | Offline Data Storage Capacity       | 5000   |
| 13  | Display                             | LCD or OLED display  |
| 14  | Keypad support                      | Min 3*3 array to take user inputs for configuration and self-test  |
| 15  | Number of Traffic Light Support     | 2 set of Red Green and Amber Lights support  |
| 16  | Hooter Support                      | 1 Nos.   |
| 17  | Clock                               | Built-in RTC   |
| 18  | Timeout values                      | Configurable for server communication, boom barrier, digitalize and other components and value can be set between 1 sec to 255 seconds |
| 19  | Number of Retries                   | Configurable minimum 1   |
| 20  | Number of Weight consideration for  | Minimum 3  |



|    |  |   |
|----|--|---|
|    | accuracy                                       |   |
| 21 | Max Delay in weight capture                    | 30 seconds  |
| 22 | Boom Barrier Open Period                       | 30 seconds  |
| 23 | Auto disable of non-working position sensors   | System should identify automatically on self-test the non-working sensor and make use of redundant working sensor array   |
| 24 | Minimum 2 set of sensor array at each position | The controller should have sensors arranged in a manner where controller can have at least 1 working set of sensors in case of failure event like wire cut or sensor damage. The self-test process must be automatic and the system must display error status code on software or display |
| 25 | Local data storage                             | In case of connectivity breakup, the controller can store data locally  |
| 26 | Time Stamp                                     | Controller must have a RTC for time stamp and also support facility to do time sync from server if auto test identifies the CMOS time issue on controller   |
| 27 | Power supply                                   | Controller can have backup battery power source so as the controller can work in absence of main power cut for at least 5 minutes   |

○ **Positioning Sensor Poles and Sensor Specifications:**

|    |  |
|----|--|
| 1  | Should be made up of 2-Meter-high MS/GI Square Tube of minimum size of 72X72 MM and 2 MM thick.  |
| 2  | There should be appropriately sized square base plate of minimum thickness of 8 MM with 20 Deg. Angle adjustment.  |
| 3  | Each pole shall house three IR beam sensors, one at bottom, one at middle and one at bottom.   |
| 4  | One face of the pole would be laser cut from top to bottom so that the three sensors along with the adjustable clamp could site inside the pole so that the sensors remain inside the pole and would not be damaged in case something hits the pole.           |
| 5  | Each IR Beam Sens or shall be first mounted on a small mounting assembly with a 2-axis adjustable clamp which would help during the positioning of the sensor.   |
| 6  | The top sensor would be aligned in such a way that the top sensor would form a cross beam with the bottom sensor of the opposite pole IR beam sensor. The middle sensor would form a straight beam with the middle sensor of the opposite pole IR beam sensor. |
| 7  | Three pair of such poles shall be placed along the weighbridge.  |
| 8  | All these sensors shall be connected to a controller to then interface with the man less weigh bridge controller module.   |
| 9  | The complete structure should be powder coated with exterior Grade PU coat.  |
| 10 | All the wires to be taken from inside hollow structure of the tube so that the wires are not visible from outside.   |



|    |  |
|----|--|
| 11 | The top of the mounting pole must be sealed, and it should not be left hollow from top.  |
| 12 | Sensor choice or assembly must support auto test feature to identify faulty sensors in automatic manner                                      |
| 13 | The supply of sensor be such that incase of auto detection of non-working sensor the controller can disable the faulty sensors automatically |

○ **Traffic Light:**

|    |                                       |  |
|----|---------------------------------------|--|
| 1  | Power                                 | 12VDC  |
| 2  | Description - Two color Red and Green | Stop/Go -Red and Green Traffic Light                           |
| 3  | Type                                  | High Brite   |
| 4  | Housing                               | 200MM/300MM-Standard   |
| 5  | LED                                   | High bright LED's max up to 4 should be used as central source |
| 6  | Rating                                | IP56 or higher   |
| 7  | Power Consumption                     | 14W or better  |
| 8  | Temperature                           | 0 ° to +55 ° degree Celsius                                    |
| 9  | MTBF                                  | should be > 50,000 hours                                       |
| 10 | Interface                             | Digital Output/ RS232/ RJ45 Ethernet Port                      |
| 11 | Certification                         | EN12368 Certified from EN certified lab or equivalent          |

➤ **PA system with Speaker and Audio Amplifier for Weighbridge for Voice based announcement System to guide the driver**

| Sr. No.          | Parameter          | Technical Specifications   |
|------------------|--------------------|--|
| <b>Amplifier</b> |                    |  |
| 1                | Power Output       | 37W Max., 30W RMS at 10% THD, 27W RMS at 5% THD  |
| 2                | Output Regulation  | ≤ 2 dB, no load to full load at 1kHz   |
| 3                | Input Channels     | 2 × Mic. 0.5mV/2.5kΩ, 1 × Aux 50mV/330kΩ   |
| 4                | Speaker Outputs    | 4Ω, 8Ω, 16Ω & 100V   |
| <b>Speaker</b>   |                    |  |
| 1                | Input Power        | 30W RMS/45W Max.   |
| 2                | Frequency Response | 240-10,000Hz   |
| 3                | Voice announcement | Event triggered voice messages, voice Message should configurable in local language through the system i.e. Gujarati / Hindi |



|   |                              |   |
|---|------------------------------|---|
| 4 | Automated Guidance           | Provides clear step-by-step audio instructions to ensure the vehicle is positioned correctly on the platform  |
| 5 | Integration with Peripherals | Works alongside RFID Reader, IoT Controller, Positioning Sensor traffic lights, boom barriers, and LED displays to control vehicle                              |
| 6 | Voice Customization          | Alerts can be set in local languages to ensure clear communication with diverse drivers   |
| 7 | Software Interface           | Integrates with the main automation software to trigger announcements automatically, manages input from sensors/Controller to trigger the correct voice prompt. |

➤ **LED Display Installation will be done at Weighbridge to display various messages/instruction.**

| Sr. No. | Parameter                | Technical Specifications   |
|---------|--------------------------|--|
| 1       | Type                     | LED, Red Colour  |
| 2       | LED Intensity            | 5500mCD or higher  |
| 3       | Visibility Range         | Greater than 15 Meter  |
| 4       | Refresh Rate             | 50Hz-100Hz   |
| 5       | Display Support          | true type fonts and adjustable based on the Operating system requirement   |
| 6       | Size                     | 36" X 12" or higher  |
| 7       | Communication            | Ethernet   |
| 8       | Protocol Supported       | MQTT or better   |
| 9       | Rating (For Outdoor Use) | IP 56 or better  |
| 10      | Display                  | System generated real time Message (in local language) & Weight, vehicle number, operational instructions like Driver Guidance Messages, status/error, displays visible in direct sunlight |

➤ **Desktop Computer:**

|   |                  |  |
|---|------------------|--|
| 1 | Processor        | Intel Core i5-12500, 12th Generation or higher |
| 2 | Chipset          | Intel Compatible Chipset                       |
| 3 | Memory (RAM)     | 16 GB DDR5 OR higher                           |
| 4 | Storage          | 512 GB SSD (PCIe NVMe, M.2)                    |
| 5 | Operating System | Windows 11 Professional                        |
| 6 | Networking       | Integrated Gigabit Ethernet (10/100/1000 Mbps) |



|    |  |  |
|----|--|--|
| 7  | Wireless Connectivity                      | Wi-Fi + Bluetooth  |
| 8  | Ports & Slots                              | USB 3.2, USB 2.0, HDMI/DP, RJ-45, Audio In/Out (standard), in-built speaker. |
| 9  | Form Factor                                | Mini Tower (MT)  |
| 10 | Certifications                             | Energy Star, EPEAT, RoHS compliant   |
| 11 | Onboard /in-built RS232 Serial Port (COM1) | Yes  |
| 12 | Monitor                                    | Minimum 19" LED Monitor  |
| 13 | Keyboard                                   | USB standard keyboard  |
| 14 | Mouse                                      | USB optical scroll mouse   |
| 15 | Onsite Warranty and support                | 05 years   |

➤ **1 KVA Single Phase UPS:**

|    |  |  |
|----|--|--|
| 1  | UPS Capacity                           | 1kVA   |
| 2  | Load Power Factor                      | 0.8  |
| 3  | OVCD                                   | Available  |
| 4  | ECO Mode                               | Available  |
| 5  | Converter Mode (CVCF)                  | Available, UPS de-rates to 20%                     |
| 6  | Bypass Parameters                      | Configurable                                       |
| 7  | Cold Start                             | Available  |
| 8  | Auto Re Start                          | Available  |
| 9  | Display                                | LCD – User-friendly display.                       |
| 10 | Charging Profile                       | 2-stage charging (Constant Current / Float Charge) |
| 11 | Temperature Compensated Charger        | Available  |
| 12 | Fan Speed Control                      | Yes  |
| 13 | Controller                             | Microcontroller Unit                               |
| 14 | Phase / Voltage                        | 1 Phase / 230V                                     |
| 15 | Voltage                                | 160V AC / 185V AC $\pm$ 5Vac                       |
| 16 | Low loss / Come back at 80 - 100% load | 160V AC / 185V AC $\pm$ 5Vac                       |
| 17 | Low loss / Come back at 70 - 80 % load | 140V AC / 155V AC $\pm$ 5Vac                       |
| 18 | Low loss / Come back at 60 - 70 % load | 120V AC / 135V AC $\pm$ 5Vac                       |
| 19 | Low loss/ Come back at 0 - 60 % load   | 110V AC / 125V AC $\pm$ 5Vac                       |
| 20 | High loss / Come back                  | 300V AC / 290V AC $\pm$ 5Vac                       |
| 21 | Power Factor                           | 0.99 @100% R Load                                  |
| 22 | Bypass Voltage Tolerance               | 170V - 264V (adjustable in front panel)            |
| 23 | Bypass Frequency Sync                  | 47.5Hz - 52.5Hz                                    |
| 24 | Voltage                                | 220VAC / 230VAC / 240VAC $\pm$ 1%                  |
| 25 | Crest Factor                           | 3:1  |
| 26 | THDv                                   | <3% Linear Load                                    |
|    |  | <5% Non-Linear Load                                |
| 27 | AC / AC Efficiency                     | Up to 90%  |



|    |                             |                               |
|----|-----------------------------|-------------------------------|
| 28 | ECO Mode                    | Up to 97%                     |
| 29 | Overload Capacity           | 105 - 110%: 10 min            |
|    |                             | 111 - 130%: 1min              |
| 30 | Noise Level                 | 50dBA                         |
| 31 | Operating Temperature       | 0 - 40 deg C (with full Load) |
| 32 | 1 HR Battery Backup         | 1512 VAH                      |
| 33 | RS 232                      | Yes                           |
| 34 | USB Com Port                | Yes                           |
| 35 | Ingress Protection          | IP 20                         |
| 36 | EMC                         | EN 62040-2                    |
| 37 | Safety                      | EN 62040-1                    |
| 38 | Certification               | CE Certified                  |
| 39 | UPS Capacity                | 1kVA                          |
| 40 | Load Power Factor           | 0.8                           |
| 41 | Onsite Warranty and support | UPS: 05 years                 |
|    |                             | Battery: 03 years             |

➤ **3 KVA Single Phase UPS**

|    |  |  |
|----|--|--|
| 1  | UPS Capacity                           | 3kVA   |
| 2  | Load Power Factor                      | 0.8  |
| 3  | OVCD                                   | Available  |
| 4  | ECO Mode                               | Available  |
| 5  | Converter Mode (CVCF)                  | Available, UPS de-rates to 20%                     |
| 6  | Bypass Parameters                      | Configurable                                       |
| 7  | Cold Start                             | Available  |
| 8  | Auto Re Start                          | Available  |
| 9  | Display                                | LCD – User friendly display.                       |
| 10 | Charging Profile                       | 2 stage charging (Constant Current / Float Charge) |
| 11 | Temperature Compensated Charger        | Available  |
| 12 | Fan Speed Control                      | Yes  |
| 13 | Controller                             | Micro Controller Unit                              |
| 14 | Phase / Voltage                        | 1 Phase / 230V                                     |
| 15 | Voltage                                | 160V AC / 185V AC $\pm$ 5Vac                       |
| 16 | Low loss / Come back at 80 - 100% load | 160V AC / 185V AC $\pm$ 5Vac                       |
| 17 | Low loss / Come back at 70 - 80 % load | 140V AC / 155V AC $\pm$ 5Vac                       |
| 18 | Low loss / Come back at 60 - 70 % load | 120V AC / 135V AC $\pm$ 5Vac                       |
| 19 | Low loss/ Come back at 0 - 60 % load   | 110V AC / 125V AC $\pm$ 5Vac                       |
| 20 | High loss/ Come back                   | 300V AC / 290V AC $\pm$ 5Vac                       |
| 21 | Power Factor                           | 0.99 @100% R Load                                  |
| 22 | Bypass Voltage Tolerance               | 170V - 264V (adjustable in front panel)            |
| 23 | Bypass Frequency Sync                  | 47.5Hz - 52.5Hz                                    |



|    |                             |                                    |
|----|-----------------------------|------------------------------------|
| 24 | Voltage                     | 220VAC / 230VAC / 240VAC $\pm$ 1%  |
| 25 | Crest Factor                | 3:1                                |
| 26 | THDv                        | <3% Linear Load                    |
|    |                             | <5% Non-Linear Load                |
| 27 | AC / AC Efficiency          | Up to 90%                          |
| 28 | ECO Mode                    | Up to 97%                          |
| 29 | Overload Capacity           | 105 - 110%: 10 min                 |
|    |                             | 111 - 130%: 1min                   |
| 30 | Noise Level                 | 50dBA                              |
| 31 | Operating Temperature       | 0 - 40 deg C (with full Load)      |
| 32 | 1 HR Battery Backup         | 4680 VAH                           |
| 33 | RS 232                      | Yes                                |
| 34 | USB Com Port                | Yes                                |
| 35 | Ingress Protection          | IP 20                              |
| 36 | EMC                         | EN 62040-2                         |
| 37 | Safety                      | EN 62040-1                         |
| 38 | Certification               | CE Certified                       |
| 39 | UPS Capacity                | 3kVA                               |
| 40 | Load Power Factor           | 0.8                                |
| 41 | Onsite Warranty and support | UPS: 05 years<br>Battery: 03 years |

➤ **Technical Specification of 24 Port PoE + Gigabit Switch.**

| Sr. No.                                      | Parameter   |
|--|---|
| <b>Architecture &amp; Performance</b>        |   |
| 1  | Switch should have total 24 Nos. Gigabit port of 10/100/1000 Mbps PoE Ethernet Ports and 2 Nos. Gigabit SFP slot(SFP/GbE).  |
| 2  | The Switch should have Non-blocking wire speed switch fabric, should have Min. 20 Gbps Back plane or more and should have Min.14.8 Mbps or more   |
| 3  | Should support EEE IEEE802.3az standard for minimize the power consumption on per port basis by supplying power on the basis of cable length and active ports only                                  |
| 4  | Should support Dual Software (firmware) image   |
| <b>Should support the following Standard</b> |   |
| 5  | IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Ethernet, IEEE 802.ab 1000BASE-T Ethernet, IEEE 802.3z 1000BASE-X Ethernet, IEEE 802.3x flow control IEEE 802.3af PoE and IEEE802.3at PoE plus |
| 6  | IEEE 802.1D spanning tree protocol IEEE 802.1w rapid spanning tree protocol, IEEE 802.1s multiple spanning tree protocol  |
| 7  | IEEE 802.1p class of service, priority protocols, IEEE 802.1X port authentication, IEEE 802.3ad LACP aggregation  |



| <b>Traffic Management and QoS</b>       |   |
|---|---|
| 8                                       | Rate limiting: port-based bandwidth control, 64 kbps granularity  |
| 9                                       | Port-based egress traffic shaping   |
| 10                                      | Switch should support Jumbo frames of 9KB   |
| 11                                      | should support broadcast storm control to avoid unwanted traffic attack on CPU  |
| 12                                      | should support IEEE 802.1p with priority queues for different traffic types   |
| 13                                      | Switch should be able to automatically detect the power consumption status of each Powered Device and supply only the amount of power required to minimize the waste and unused power |
| 14                                      | Supports IGMP/IGMP snooping v1, v2, v3  |
| <b>Link Aggregation</b>                 |   |
| 15                                      | IEEE 802.3ad LACP link aggregation compliant  |
| 16                                      | Up to 8 aggregation groups,   |
| <b>Resilient Network</b>                |   |
| 17                                      | Should support IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)  |
| 18                                      | Should support IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)   |
| <b>User Security and Authentication</b> |   |
| 19                                      | should support MAC filtering per port secures access to each port   |
| 20                                      | should support IEEE 802.1Q tag-based and port-based VLAN  |
| 21                                      | Switch should support Guest VLAN and VOICE VLAN   |
| 22                                      | Should support IEEE 802.1x based on guest VLAN  |
| 23                                      | should support at least 1K static VLAN.   |
| 24                                      | should support Port-base VLAN   |
| 25                                      | should support limited MAC number per port  |
| 26                                      | Should be capable to set mac ageing time  |
| 27                                      | should support Loop guard to avoid loops in network generated on unmanaged switches   |
| 28                                      | should support 802.1X port-based authentication, compensated assignment over VLAN.  |
| 29                                      | Should support 802.1ab LLDP and MED   |
| 30                                      | Should support SNMP, Syslog.  |
| <b>Network Administration Security</b>  |   |
| 31                                      | should support SSL  |
| 32                                      | Should support static and dynamic IP-MAC and Port binding for port security   |
| 33                                      | The switch should have scheduling for POE.  |



| <b>IPv6 Support</b>                 |   |
|-------------------------------------|---|
| 34                                  | IPv6 over Ethernet, IPv6 Addressing, ICMPv6, DualStack, Neighbor discovery  |
| <b>Network Management</b>           |   |
| 35                                  | Web-based management, SNMP v1, v2c, v3  |
| 36                                  | RMON four RMON groups 1, 2, 3, 9 (history, statistics, alarms and events) for enhanced traffic management, monitoring and analysis  |
| 37                                  | Port mirroring: supports source/destination/both port mirroring   |
| 38                                  | Switch should be supplied with management software to manage and maintain multiple layer2 switches for Centralized and batch configurations like IP configurations, IP renew, Web GUI access, Firmware update, device locating etc. |
| 39                                  | The switch should have minimum MTBF of 801,100.   |
| 40                                  | The PoE power budget of the device should be more than 75 Watts.  |
| 41                                  | The switch protects against scan attack and Ping of death   |
| <b>Certification</b>                |   |
| 42                                  | CE, FCC, C-Tick, Class B  |
| 43                                  | The OEM Brand should be having valid ISO 9000, ISO 14000 certificates, all these certificates must be submitted in technical bid.   |
| 44                                  | All switches and modules must be from the same OEM for better compatibility   |
| <b>Environmental specifications</b> |   |
| 45                                  | Operating temperature 0 Deg C to 50 Deg C   |
| 46                                  | Operating Humidity 10% to 95 % (Non condensing)   |



## SECTION J: APPROVED MAKE

The “Approved Make and Model” specified below is indicative in nature and represents the preferred make and model of the hardware and software components required under this RFP. Bidders are advised to duly consider the criticality and sensitivity of the proposed solution while submitting their bids. GIPCL requires that the necessary infrastructure be provided using the OEMs/makes specified below.

In case a bidder proposes an alternative make and model meeting the prescribed technical specifications and performance requirements, the acceptance or rejection of such proposed make and model shall be at the sole discretion of GIPCL. GIPCL reserves the absolute right to accept or reject any proposed alternative make and model without assigning any reason thereof.

| Sr. No. | Name of the Item  | OEM / Make  |
|---------|---|---|
| 1       | UHF RFID Reader   | Impinj / Zebra / Chainway / Kathrein / Invengo  |
| 2       | UHF RFID Tag  | Standard  |
| 3       | IP CCTV- Bullet Camera with IR illuminator  | Standard STQC-approved brand CP PLUS/Honeywell/Tyco Illustra/Prama Hikvision                            |
| 4       | IP CCTV- PTZ Camera with IR illuminator   | Standard STQC-approved brand CP PLUS/Honeywell/Tyco Illustra/Prama Hikvision                            |
| 5       | IP CCTV- ANPR Bullet Camera with IR illuminator   | Standard STQC-approved brand CP PLUS/Honeywell/Tyco Illustra/Prama Hikvision                            |
| 6       | IoT based Controller with related all accessories   | Siemens / Advantech / Schneider Electric / Beckhoff / Moxa / Rockwell Automation (Allen-Bradley) / WAGO |
| 7       | Positioning sensors for weighbridges  | Standard  |
| 8       | Signal Light (Set of Red & Green)   | Standard  |
| 9       | 24 Port managed Network switch POE gigabit switch, 2 combo copper uplink+ 2 SFP module with | Cisco / Zyxel/Dlink   |



|    |  |   |
|----|--|---|
|    | PoE +support (SFP included) with 6U Cabinet enclosure/Rack   |   |
| 10 | PAS (Public Announcement system) with LED display screen for weighbridge   | Standard  |
| 11 | 1 KVA UPS (1 Hrs.)   | Standard  |
| 12 | 3 KVA UPS (1 Hrs. backup)  | Standard  |
| 13 | Boom Barrier — IoT Based, 6m Arm, Safety Sensors, Loop Detector, IR Sensor, Photo Sensor, IP55; with all accessories | FAAC / Magnetic Autocontrol / Nice / Came / Gunnebo / BFT / Hörmann   |
| 14 | Application Server with license copy of latest MS windows OS   | HPE / Dell / Lenovo / Cisco UCS / Supermicro / Inspur / NEC / Fujitsu |
| 15 | Database Server with license copy of latest MS windows OS & Database server software                                 | HPE / Dell / Lenovo / Cisco UCS / Supermicro / Inspur / NEC / Fujitsu |
| 16 | Video Monitoring & Recording Server hardware (VMS) with license copy of latest Windows OS                            | Standard Brand shall be in line with Sr. Nos. 14 & 15                 |
| 17 | Video Monitoring & Recording Server software (VMS) with dual N+1 failover configuration and 75 Nos. Camera license   | Standard Brand should be Recommended                                  |
| 18 | Video Analytics server Hardware with latest license copy of OS   | Standard Brand shall be in line with Sr. No. 14 & 15                  |
| 19 | Video Analytics server software with 15 Nos. of ANPR Camera license  | Standard  |
| 20 | Desktop PCs for weighbridges with on board serial port and speaker   | Standard  |
| 21 | Junction Box & other accessories as per project requirements   | Standard (Industrial Grade)   |



**SECTION K – PRE-QUALIFICATION CRITERIA:**

| Sr. No. | Eligibility Criteria   | Supporting documents<br>(Notary certified true copy / self-attested)  |
|---------|--|---|
| 1       | The Bidder shall have appropriate authorization, partnership, or sourcing arrangements for key components (UHF RFID reader, Boom Barrier, IoT-based controller, CCTV Camera) quoted for this tender. The Bidder shall submit the OEM MAF in this regard.   | OEM MAF (as per format provided in <b>Annexure VII</b> ) for products like UHF RFID reader, Boom Barrier, IoT based controller, Signal Light, CCTV Camera & Server Hardware quoted for this tender must be enclosed by bidder with technical bid.   |
| 2       | Bidder shall be a company / LLP registered in India under the Companies Act 1956 / 2013 or LLP Act, 2008 of India, having existence of at least 03 years as on bid submission date.  | Copy of as on date valid, Incorporation/registration certification, Permanent Account Number (PAN), & GST registration number should be submitted.  |
| 3       | Bidder's Average Annual Turnover (After deducting GST) of last 03 years shall be at least of <b>Rs. 20 Crores</b> .  | Audited Financial statements for the past three financial years.  |
| 4       | Bidder must have a <b>positive net worth</b> on standalone basis in last financial year ending on 31 <sup>st</sup> March, 2025. (Net worth = Share capital + Reserves & surplus (excluding any revaluation reserve and share application money pending allocation) – miscellaneous expenses).  | Audited Financial statement for the last FY 2024-25.  |
| 5       | The OEM (for which the bidder has submitted OEM MAF) of the proposed UHF RFID Reader, IoT-based Controller, CCTV Camera, Boom Barrier, and Server Hardware shall have:<br><br>(i) Direct presence in India for a minimum 03 years as on the bid submission date.<br>(ii) Own repair/maintenance/replacement support setup in India for a minimum 03 years.<br>(iii) Shall not have been blacklisted by any Central / State Government Department or PSU as on the bid submission date. | Letter of respective OEMs on its company's letterhead signed by authorized signatory, confirming the required mentioned declarations along with followings:<br>(i) Copy of Certification of Incorporation<br>(ii) Any two documents from the list below should be attached.<br>Property Tax Bill of last year / Electricity Bills of last year / Telephone Bills of last one year / GST Registration / Valid lease Agreement. |



|           |   |  |
|-----------|---|--|
|           | <p><b>Note: OEMs having existence as Joint Venture / Franchise / Distributor offices shall not be considered as direct presence for the purpose of consideration of Clause 5(i).</b></p>  |  |
| <p>6*</p> | <p><b>The bidder should have completed Minimum (02) projects in Mining / Logistic / Smart Transportation / Intelligent Transportation System sectors in India during the last (07) seven years of the following experience as of the tender floating date:</b></p> <p>Experience in Design, Supply, Installation, Testing, Commissioning, Integration of RFID-based total dispatch management system.</p> <p>The experience shall include integration of UHF RFID Readers, UHF RFID Tags, CCTV Cameras, Controllers, Boom Barriers, Traffic Lights with software applications for automated vehicle authentication, entry-exit management and transaction processing.</p> | <p><b><u>The mandatory supporting documents:</u></b></p> <p>Copy of work order + Completion Certificates from client + Project Citation</p> <p style="text-align: center;"><b><u>OR</u></b></p> <p>Copy of Work Order + Self Certificate of Completion (Certified by CS / independent auditor of the bidding entity) + Client Certificate + Project Citation</p> <p><i>Only the experience of such bidders shall be considered eligible who have solely delivered the said work either as a principal contractor or sub-contractor.</i></p> <p><i>In case the bidder claims to possess the relevant experience as a sub-contractor to fulfill the PQR under this clause, the bidder has to submit the work order and work completion certificate issued by the principal contractor, clearly earmarking the scope of the work completed as a sub-contractor.</i></p> <p><i>In either of the above cases, the relevant work experience is mandated to be solely executed by the bidder.</i></p> |
| <p>7*</p> | <p><b>The bidder should have completed at least one (01) project in Mining Sector in India during the last (07) seven years of the</b></p>  | <p><b><u>The mandatory supporting documents:</u></b></p> <p>Copy of work order + Completion Certificates from client + Project Citation</p>  |



|   |  |  |
|---|--|--|
|   | <p><b>following experience as on the tender floating date:</b></p> <p><b>(1) Experience in Design, Supply, Installation, Testing, Commissioning, Integration, Warranty, Operation &amp; Maintenance of RFID-based dispatch management system (including transportation management, weighbridge automation, vehicle movement management systems).</b></p> <p>The experience shall include integration of UHF RFID Readers, UHF RFID Tags, CCTV Cameras, Controllers, Boom Barriers, Traffic Lights, Weighbridges with software applications for automated vehicle authentication, dispatch monitoring, entry-exit management, and transaction processing.</p> <p>The scope of the bidder under required experience should mandatorily include a minimum of one (01) year of Warranty / Operation &amp; Maintenance (O&amp;M).</p> <p><b>The value of the project executed should be Minimum INR 2.5 Crores.</b></p> | <p style="text-align: center;"><b><u>OR</u></b></p> <p>Copy of Work Order + Self Certificate of Completion (Certified by CS / independent auditor of the bidding entity) + Client Certificate + Project Citation</p> <p><i>Only the experience of such bidders shall be considered eligible who have solely delivered the said work either as a principal contractor or sub-contractor.</i></p> <p><i>In case the bidder claims to possess the relevant experience as a sub-contractor to fulfill the PQR under this clause, the bidder has to submit the work order and work completion certificate issued by the principal contractor, clearly earmarking the scope of the work completed as sub-contractor.</i></p> <p><i>In either of the above cases, the relevant work experience is mandated to be solely executed by the bidder.</i></p> |
| 8 | <p>Bidder must possess as of the date valid certifications of CMMI Level 3/CMMI Level 5 in software development <b>and ISO 27001:2015/2022 for Information Security Management System.</b></p>   | <p>Copy of as on date valid certifications should be submitted.</p>  |
| 9 | <p>The bidder should have at least 15 Qualified experienced IT professionals associated with the bidder's company for at least period of one year, reckoned from the tender floating date. The IT professionals should have work experience in Software development and IT/ITES projects.</p>  | <p>A declaration letter of bidder's HR department for the number of technically qualified professionals associated with the company. The letter shall contain IT professional education qualification details with skilled certifications, current designation, age in years, total work experience, work experience in current profile</p>  |



|    |   |   |
|----|---|---|
|    |   | and description of current roles and responsibilities.  |
| 10 | The bidder should be registered under GST.  | A copy of valid registration proof should be submitted with the bid.  |
| 11 | The bidder should have an operational office in India.  | Copies of any of the following: Property Tax Bill / Electricity Bills / Telephone Bill / Valid Lease Agreement should be submitted with the bid.                      |
| 12 | Bidder should not have been blacklisted/banned / declared ineligible / declared having dissatisfactory performance by any government / quasi-government authority in India for the supply of materials / carrying out operations and maintenance work within the last 03 years from the tender floating date. | An undertaking by an authorized signatory of the company needs to be submitted in this regard as per format mentioned in the <b>Annexure V and Annexure XII</b>       |
| 13 | The Power of Attorney (along with a Notarized board resolution) to be submitted authorizing the signatory for this tender on behalf of the bidder.<br>The authorized signatory should sign all communications, including the bid.   | Original Power of Attorney along with Notarized board resolution copy. The power of attorney should be submitted on a stamp of Rs. 300/- (Rupees Three Hundred Only). |
| 14 | Bidder should have to submit affidavit physically on Stamp paper as per format mentioned in <b>Annexure XIV</b> .   | ORIGINAL on Non-Judicial Stamping of Rs. 300/- duly attested by Magistrate / Notary.  |
| 15 | Bidder shall have to submit the “Declaration-cum-Undertaking for Compliance of Safety Laws and Regulations” as per format mentioned in <b>Annexure IV</b> .   | Bidder has to submit a declaration letter on the company’s letter head as per format mentioned in the <b>Annexure IV</b> .  |

**\*GIPCL reserves the right not to consider bid of vendor who has track record of Non-Compliance/ Non-Performance/Non-Supply/ Cancellation of Work Order/Purchase Order in past with GIPCL.**



**For the purpose of consideration under PQR Clause 06 and 07, the bidder shall submit separate Credentials. A single project/experience shall not be considered for the fulfilment of both PQR criteria.**

**INSTRUCTIONS TO BIDDER:**

- All the above-mentioned documents for the pre-qualification criteria of bid must be a notary-certified true copy/ self-attested.
- Work Order and Work Completion Certificate must be in the English language only. In case, Work Order or Work Completion Certificate is in any other language, bidder has to submit notarized Work Order in English language only.
- Attested copies of relevant documents duly signed & seal on each & every page shall be submitted.
- GIPCL reserves the right to verify all documents, credentials, and experience certificates submitted by the Bidder through the concerned issuing authorities or by any independent means deemed appropriate. The Bidder shall submit complete documentary evidence, including duly attested copies of work orders, work completion certificates, and other supporting documents along with EMD and Tender Fee, and shall also furnish the requisite details to meet the pre-qualification requirements. After the opening of the Technical Bid, in the event any required attested document is found missing, the tender inviting authority may, at its discretion, intimate the Bidder via email to submit such documents within a stipulated time period, failing which the Bid shall be declared technically disqualified without any further correspondence. GIPCL may independently assess the Bidder's experience, performance, capability, and capacity for execution of the work, including conducting site visits and consulting previous clients or project owners. GIPCL further reserves the absolute right to accept, reject, or cancel any or all Bids without assigning any reason whatsoever, and only those Bidders who are found technically qualified shall be considered for further evaluation.
- If any of the details submitted in the prescribed Annexure / Form to the Bid is/are found to be false, incorrect at any time in future, then the Contract awarded to that Bidder / Contractor shall be liable to be terminated forthwith without any notice/correspondence and Bidder agrees and undertakes to accept decision of GIPCL in this regards as final and binding on the Bidder without any demur and that no further correspondence shall be done in this regard at any stage. Further, Performance / Security Deposit will also be liable to be forfeited. Any dues to GIPCL from the Bidder / Contractor shall be recovered from the pending bills or any other dues payable to the Bidder / Contractor, if any or otherwise through any other recourse available under the Laws.
- For Pre-qualification criteria of work experience Sr. No: 15, If any Major Violation of any safety law(s) / Rule(s) is / are found during the preceding Three (3) years, bid of that party will be liable to be rejected. Bidder agrees and undertakes to accept decision of GIPCL in this regard as final and binding on the Bidder without any demur and that no further correspondence shall be done in this regard at any stage.



- ❑ The above-mentioned eligibility criteria should be necessarily met and adequate documentary proof be submitted for verification. If any / partial / all of the above-mentioned eligibility criteria don't fulfill by bidder, in that case, such bid is disqualified for technical bid opening.
- ❑ Physical bid must be submitted by registered AD or speed post or Hand delivery mode. Any other mode is not allowed. However, bidder should be solely responsible for inward entry of own physical bid.
- ❑ The bid must be spiral bound, failing which it shall be rejected outright. In case the bid/document size is large, the bidder may divide it into multiple parts. Each part shall be properly indexed and page-numbered, and all pages of the RFP shall be duly signed and sealed.



**SECTION L – ESTIMATED BILL OF MATERIAL:**

As per the scope defined under this RFP, the estimated Bill of Materials (BoM) and associated ancillary items have been assessed by GIPCL and are presented in the table below. Bidders are required to submit their Price Bid strictly in accordance with this BoM, and the quoted prices shall be based solely on the same.

| <b>HARDWARE COMPONENTS</b>                    |  |                                  |                       |
|---|--|----------------------------------|-----------------------|
| <b>ESTIMATED BILL OF MATERIAL FOR PHASE 1</b> |  |                                  |                       |
| <b>Sr. No</b>                                 | <b>Description</b>   | <b>Unit of Measurement (UoM)</b> | <b>Estimated Qty.</b> |
| <b>A</b>                                      | <b>Weighbridge and Boom Barrier</b>  |                                  |                       |
| 1   | UHF RFID Reader with related all Accessories, including all type of cables & mounting accessories— Long Range (≥12m), Industrial Grade, IP65, ISM 865–868 MHz, EPC Gen2, with 2 antennae (with support of minimum 4 antenna) | Nos.                             | 55                    |
| 2   | UHF RFID Tag   | Nos.                             | 1000                  |
| 3   | IP CCTV Bullet Camera – 5 MP with IR Illuminator, complete with all required accessories, including cables, mounting hardware, and associated mounting accessories.  | Nos.                             | 22                    |
| 4   | IP CCTV PTZ Camera — 5MP, 30x Optical Zoom, IR 200m, with related all Accessories including all type of cable, mounting accessories  | Nos.                             | 12                    |
| 5   | 24 Port managed Network switch POE gigabit switch, 2 combo copper uplink+ 2 SFP module with PoE +support (SFP included) with 6U Cabinet enclosure/Rack   | Nos.                             | 2                     |
| 6   | IoT Based Controller — for weighbridge integration (Ability to integrate with boom barrier, sensors, PA, traffic lights, RFID interface) with related all Accessories & cables   | Nos.                             | 19                    |
| 7   | Signal Light (Set of Red & Green) with related all Accessories & cables  | Nos.                             | 34                    |
| 8   | 1 KVA UPS — 1 Hr Battery Backup,   | Nos.                             | 17                    |
| 9   | 3 KVA UPS — 1 Hr Battery Backup  | Nos.                             | 4                     |
| 10  | Boom Barrier — IoT Based, 6m Arm, Safety Sensors, Loop Detector, IR Sensor, Photo Sensor, IP55; with all accessories   | Nos.                             | 5                     |
| <b>B</b>                                      | <b>Proposed Other IT Hardware &amp; Materials</b>  |                                  |                       |
| 1   | Application Server — Rack Mount, with MS Windows Server OS Licence, as per technical specification   | Nos.                             | 2                     |



|  |   |      |    |
|--|---|------|----|
| 2  | Database Server — Rack Mount, with MS Windows Server OS & Database Licence, as per technical specification  | Nos. | 2  |
| 3  | Video Management (VMS) Server Hardware — Rack Mount, with MS Windows Server OS Licence, as per technical specification  | Nos. | 2  |
| 4  | Desktop PC for Weighbridges — Windows 11, Onboard RS-232 (COM1), Speaker; with 19" LED Monitor, Keyboard, Mouse, as per technical specification   | Nos. | 13 |
| 5  | Miscellaneous Items — Poles, Fabricated Structures, Junction Boxes, Mounting Hardware, Cables, Conduits, Fasteners, miscellaneous accessories/components etc. (complete as required)  | Lot  | 1  |
| <b>ESTIMATED BILL OF MATERIALS FOR PHASE 2<br/>(ADDITIONAL REQUIREMENTS - DEPLOYED POST PHASE 1 GO-LIVE)</b> |   |      |    |
| 1  | IP CCTV ANPR Bullet Camera — 5MP, Motorized Varifocal, IR 50m, IP66, LPR Accuracy >98%, H.265; with all accessories incl. pole & mounting accessories.  | Nos. | 15 |
| 2  | IR Based Vehicle Positioning Sensor Set — 3 Pairs per weighbridge, MS/GI Square Tube Pole (72×72mm, 2mm thick), 3-axis adjustable clamp, auto-detect faulty sensor; complete set with all accessories incl. pole & mounting accessories | Nos. | 36 |
| 3  | PA System with LED Display — 30W RMS Amplifier, IP-rated Speaker, LED Display 36"×12" Red, Gujarati/Hindi Voice Configurable, Event-Triggered, IP56; with all accessories   | Nos. | 14 |
| 4  | Video Analytics Server Hardware — 2U Rack, with OS Licence, as per technical specification  | Nos. | 1  |

| <b>SOFTWARE COMPONENTS</b>                     |   |                           |                |
|--|---|---------------------------|----------------|
| <b>ESTIMATED BILL OF MATERIALS FOR PHASE 1</b> |   |                           |                |
| Sr. No   | Description   | Unit of Measurement (UoM) | Estimated Qty. |
| 1  | GILDMS Weighbridge Desktop Client Software — 12 weighbridges, Windows compatible, RS-232 digitizer interface, RFID integration, operator dashboard; full source code ownership to GIPCL   | Nos.                      | 1              |
| 2  | GILDMS Server Application Software incl. Web-Based Application — transaction engine, vehicle tracking, role-based dashboards, MIS reports, admin module; full source code ownership to GIPCL, provision of outside mineral /imported coal/ Raw Material procurement | Nos.                      | 1              |



|  |   |      |   |
|--|---|------|---|
| 3  | GILDMS All Supported Software Services & Integration — CGM E-Royalty (bidirectional API), Integration with SAP ERP, IoT controller interface, CCTV trigger, alert gateway (SMS/WhatsApp/Email), offline buffer & sync logic | Nos. | 1 |
| 4  | VMS Software — N+1 Dual Server Failover, 75 Camera Licences, Web Client, Mobile App (iOS/Android), H.264/H.265, ONVIF Profile S/G/T/M, 30-day min retention, LDAP/AD auth   | Nos. | 1 |
| <b>ESTIMATED BILL OF MATERIALS FOR PHASE 2<br/>PHASE 2 — ADDITIONAL REQUIREMENTS (DEPLOYED POST PHASE 1 GO-LIVE)</b> |   |      |   |
| 1  | Video Analytics Software (VAS) — 15 ANPR Camera Licences, AI/ML LPR >98% accuracy, CERT-In Audited, ONVIF compatible, 3rd party VMS integration, Gujarati/Hindi OCR, 24x7 unattended; 3-year warranty & updates             | Nos. | 1 |

| <b>IMPLEMENTATION &amp; SUPPORT SERVICES</b> |  |                           |                |
|--|--|---------------------------|----------------|
| Sr. No                                       | Description  | Unit of Measurement (UoM) | Estimated Qty. |
| 1  | Civil Works — RCC base Foundation as per industrial standard requirement for RFID readers, boom barriers, CCTV camera, traffic signal lights, positioning sensor and PA system pole requirements                         | Nos.                      | 10             |
| 2  | Civil Works – RCC foundation for install loop detector for boom barrier  | Nos.                      | 5              |
| 3  | Electrical Works — Power cabling, distribution boards, earthing, power extension to all new equipment positions (Source power supply will be provided by GIPCL)  | Lot                       | 1              |
| 4  | Complete hardware & Software System installation, commissioning and Integration, End-to-End Testing & User Acceptance Testing (UAT) till successful Go-Live  | Lot                       | 1              |
| 5  | User Training & Project Documentation — As-Implemented Architecture, Asset Register, User Manuals, Admin Manuals, Troubleshooting Guide, Security Audit Reports. Training to Mining staff/supervisor, operator, IT staff | Lot                       | 1              |
| 6  | Third-Party Security Audit — CERT-In Empanelled Auditor, VAPT, OWASP Compliance & Safe-to-Host Certificate (pre Go-Live)   | Lot                       | 1              |
| 7  | Warranty Period Onsite Manpower — Minimum 2 Qualified Support Engineers, 24x7x365, Quarterly Preventive Maintenance, (1 Year)  | Lot                       | 1              |



| <b>CAMC Cost (including 02 No. on-site manpower support)</b>          |   |                                  |                       |
|---|---|----------------------------------|-----------------------|
| <b>Sr. No</b>   | <b>Description</b>  | <b>Unit of Measurement (UoM)</b> | <b>Estimated Qty.</b> |
| 1   | CAMC Year 2 (1st Year Post-Warranty) — Onsite Support Engineers (min. 2), Quarterly Preventive Maintenance, Hardware Repairs/Replacement (same/higher OEM), Software Bug Fixes, Patch Management, CGM Integration Support | Yearly                           | 1                     |
| 2   | CAMC Year 3 — Same scope as Year 2 + Annual VAPT, OS/DB/Firmware Updates, Performance Tuning  | Yearly                           | 1                     |
| 3   | CAMC Year 4 — Same scope as Year 3 + Advanced Analytics support, System Enhancement within scope  | Yearly                           | 1                     |
| 4   | CAMC Year 5 — Same scope as Year 4 + Advanced Analytics support, System Enhancement within scope/the final year of comprehensive coverage before transition   | Yearly                           | 1                     |
| <b>OPTIONAL CAMC Cost (including 02 No. on-site manpower support)</b> |   |                                  |                       |
| 5   | CAMC cost of the 6th year — Same scope as Year 5 + Advanced Analytics support, System Enhancement within scope  | Yearly                           | 1                     |
| 6   | CAMC cost of the 7th year, the final year of comprehensive coverage before transition   | Yearly                           | 1                     |

**Note:**

- ❖ Above Bill of Materials is tentative & it may vary depending upon the actual requirement. Billing & subsequent payment will be released on pro-rata basis for actual supply.
- ❖ Bidder has to compulsory quote for single OEM make & model of the individual item. The bid can have multiple OEMs but any quoted product with multiple OEMs will be treated as non-compliance & that bid will be liable for rejection for further evaluation.
- ❖ Bidder cannot quote/propose those products whose OEM (Original Equipment Manufacturer) belonging to a country which shares a land border with India.
- ❖ All hardware and software components(Including software source code)/products/licenses should be registered in the name of “Gujarat Industries Power Company Limited”, Surat location



## SECTION M – TECHNICAL QUALIFICATION CRITERIA

Bidders' Technical Competency shall be evaluated based on 02 broad parameters as given below:

- ✓ Bidder's technical competence (90% of the total weightage)
- ✓ Proposed Manpower (10% of the total weightage)

| TECHNICAL QUALIFICATION REQUIREMENT |   |   |            |  |
|-------------------------------------|---|---|------------|--|
| #                                   | Parameter   | Description & Marks   | Max. Marks | Supporting Documents   |
| A                                   | <b>Bidder's Technical – Commercial Competence</b>   |   | <b>90</b>  |  |
| A1*                                 | <p>The bidder should have completed projects in Mining / Logistic / Smart Transportation / Intelligent Transportation System sectors in India during the last (07) seven years of the following experience as of the tender floating date:</p> <p>Experience in Design, Supply, Installation, Testing, Commissioning, Integration of RFID-based total dispatch management system.</p> <p>The experience shall include integration of UHF RFID Readers, UHF RFID Tags, CCTV Cameras, Controllers, Boom Barriers, Traffic Lights with software applications for automated vehicle authentication, entry-exit management and transaction processing.</p> | <p>A maximum of <b>Three (3) relevant projects</b> shall be considered for evaluation, with each project carrying Ten (10) <b>marks.</b><br/> <b>[10 × 3= 30]</b></p> | <b>30</b>  | <p><b><u>The mandatory supporting documents:</u></b></p> <p>Copy of work order + Completion Certificates from client + Project Citation</p> <p><b><u>OR</u></b></p> <p>Copy of Work Order + Self Certificate of Completion (Certified by CS / independent auditor of the bidding entity) + Client Certificate + Project Citation</p> <p><i>Only the experience of such bidders shall be considered eligible who have solely delivered the said work either as a principal contractor or sub-contractor.</i></p> <p><i>In case the bidder claims to possess the relevant experience as a sub-contractor to fulfill the PQR under this clause, the bidder has to submit the work order and work completion certificate issued by the principal contractor, clearly earmarking the scope of the work completed as a sub-contractor.</i></p> <p><i>In either of the above cases, the</i></p> |



|                  |   |   |  |
|------------------|---|---|--|
|                  |   |   | <p><i>relevant work experience is mandated to be solely executed by the bidder.</i></p> <p><b>Note:</b><br/>In case a bidder submits a single umbrella work order covering multiple mine/site locations, each individual mine or site location shall be considered as a separate project, provided that:</p> <ul style="list-style-type: none"> <li>(i) each such mine/site location has distinct geographical coordinates and is situated at a minimum distance of 10 kilometres from the main project site; and</li> <li>(ii) for consideration of each site as a separate project, bidder must have executed entire eligible scope for individual mine/site separately.</li> <li>(iii) Bidder has to submit individual work completion certificate for respective mine/site for eligibility criteria consideration</li> </ul> |
| <p><b>A2</b></p> | <p><b>The bidder should have completed projects in Mining Sector in India during the last (07) seven years of the following experience as on the tender floating date:</b></p> <p>(1) Experience in Design, Supply, Installation, Testing, Commissioning, Integration, Warranty, Operation &amp; Maintenance of RFID-based dispatch management system (including transportation management, weighbridge automation, vehicle</p> | <p>A maximum of Three (3) relevant projects shall be considered for evaluation, with each project carrying Fifteen (15) marks.<br/><b>[15 × 3=45]</b></p> | <p><b><u>The mandatory supporting documents:</u></b></p> <p>Copy of work order + Completion Certificates from client + Project Citation</p> <p><b><u>OR</u></b></p> <p>45 Copy of Work Order + Self Certificate of Completion (Certified by CS / independent auditor of the bidding entity) + Client Certificate + Project Citation</p> <p><i>Only the experience of such bidders shall be considered eligible who have solely</i></p>   |



movement management systems).

The experience shall include integration of UHF RFID Readers, UHF RFID Tags, CCTV Cameras, Controllers, Boom Barriers, Traffic Lights, Weighbridges, and software applications for automated vehicle authentication, dispatch monitoring, entry-exit management, and transaction processing.

The scope of the bidder under required experience should mandatorily include a minimum of one (01) year of Warranty / Operation & Maintenance (O&M).

**The value of the project executed should be Minimum INR 2.5 Crores.**

*delivered the said work either as a principal contractor or sub-contractor.*

*In case the bidder claims to possess the relevant experience as a sub-contractor to fulfill the PQR under this clause, the bidder has to submit the work order and work completion certificate issued by the principal contractor, clearly earmarking the scope of the work completed as a sub-contractor.*

*In either of the above cases, the relevant work experience is mandated to be solely executed by the bidder.*

**Note:**

In case a bidder submits a single umbrella work order covering multiple mine locations, each individual mine location shall be considered as a separate project, provided that:

- (i) each such mine location has distinct geographical coordinates and is situated at a minimum distance of 10 kilometres from the main project site; and
- (ii) for consideration of each site as a separate project, bidder must have executed entire eligible scope for individual mine separately.
- (iii) Bidder has to submit individual work completion certificate for respective mine for eligibility criteria consideration



|                   |   |  |                  |  |
|-------------------|---|--|------------------|--|
| <p><b>A3*</b></p> | <p>The bidder should have successfully executed software development and system integration projects in India during the last seven (07) years ending on the tender floating date, involving integration of automated dispatch system with external statutory payment portal like E-Royalty Management System.</p> <p>The projects should include integration with third-party systems such as E-royalty system, ERP, regulatory portals, or other external applications through APIs/web services.</p> | <p>A maximum of two (2) relevant projects shall be considered for evaluation, with each project carrying five (05) marks.<br/> <b>[5 × 2=10]</b></p> | <p><b>10</b></p> | <p><b><u>The mandatory supporting documents:</u></b></p> <p>Copy of work order + Completion Certificates from client + Project Citation</p> <p><b><u>OR</u></b></p> <p>Copy of Work Order + Self Certificate of Completion (Certified by CS / independent auditor of the bidding entity) + Client Certificate + Project Citation</p> <p><i>Only the experience of such bidders shall be considered eligible who have solely delivered the said work either as a principal contractor or sub-contractor.</i></p> <p><i>In case the bidder claims to possess the relevant experience as a sub-contractor to fulfill the PQR under this clause, the bidder has to submit the work order and work completion certificate issued by the principal contractor, clearly earmarking the scope of the work completed as a sub-contractor.</i></p> <p><i>In either of the above cases, the relevant work experience is mandated to be solely executed by the bidder.</i></p> |
| <p><b>A4</b></p>  | <p>Bidder's having valid as on date certification / appraisal for Software development</p>  | <p>ISO 27001:2015/2022 and CMMI Level 3/CMMI Level 5</p>   | <p><b>5</b></p>  | <p>Copy of as on date valid certifications should be submitted.</p>  |



| B  | Proposed Manpower  | 90   |    |  |
|----|--|--|----|--|
| B1 | <p>Number of Qualified experienced IT professionals associated with the bidder's company (on payroll or contract) as on bid submission date<br/>           P = No. of IT professionals = 10<br/>           S = Support technicians = 5<br/>           L = Project Leader for UHF RFID project.</p> | <p>The marking criteria shall be as follows:</p> <ul style="list-style-type: none"> <li>• Availability of a minimum of Ten (10) IT Professionals (P) – <b>Four (4) Marks.</b></li> <li>• Availability of a minimum of five (5) Support Technicians (S) – <b>Three (3) Marks.</b></li> <li>• Availability of minimum one (1) dedicated Project Leader (L) for the UHF RFID Project – <b>Three (3) Marks.</b></li> </ul> <p>[4+3+3=10]</p> | 10 | <p>A declaration letter from the bidder's HR department for the number of technically qualified professionals associated with the company. The letter shall contain IT professional education qualification details with skilled certifications, current designation, age in years, total work experience, work experience in current profile and description of current roles and responsibilities.</p> |
|    | <b>Total Marks</b>   | <b>100</b>   |    |  |

**Note:**

- (1) **\*For the purpose of consideration of fulfillment of eligibility criteria, a single experience/ project shall not be inter-alia considered for marking under clause A1, A2 and A3 despite having scope conformity. The bidder has to submit separate credentials for individual considerations for under clause A1, A2 and A3 respectively.**
- (2) Work experience for completed projects undertaken by the bidder as part of a joint venture or franchise arrangement shall be considered; however, such experience will be restricted to the specific scope of work actually executed by the bidding entity. The project experience submitted must relate solely to the bidding entity. Experience gained as a sub-contractor shall be considered only where the bidder has successfully commissioned and maintained projects in accordance with the requirements specified under Sr. No. A1, A2, and A3 of the Technical Eligibility Criteria.
- (3) If the number of qualified bidders exceeds 05, the above Technical Qualification marking



criteria shall be applied to finalize the first five technically qualified bidders.

## **SECTION N – EVALUATION PROCESS OF TECHNICAL BID**

All evaluations will be carried out by GIPCL as detailed below. The decision of GIPCL at every stage will be final in this regard.

### **(i) Preliminary Scrutiny**

The technical bids shall be scrutinized at GIPCL's Vadodara Office in accordance with the provisions, requirements, and evaluation criteria specified in this Tender Document, including any amendments/corrigenda issued by GIPCL from time to time. The bid will be considered non-responsive in case of any of the following reasons and will not be eligible for the next stage bid opening:

- (1) Non-submission of tender fees
- (2) Non-submission of EMD
- (3) Submission of tender fees / EMD with an insufficient amount.

### **(ii) Pre-qualification Criteria Scrutiny**

To be eligible for technical bid evaluation, a bidder must fully satisfy all Pre-Qualification Requirements in their entirety; partial compliance with any of the Pre-Qualification criteria shall not be considered under any circumstances.

Technical bids of only those bidders who qualify in the Pre-Qualification stage shall be considered and will be evaluated as per the evaluation criteria in this clause. The Technical Bid will be examined on the basis of responsiveness to the technical specifications, of work and technical evaluation methodology mentioned herein the document.

## **SECTION O – QUALIFICATION CRITERIA OF TECHNICAL BIDS**

The technical evaluation of bids shall be conducted based on two (02) broad parameters, in accordance with the predefined Technical Evaluation **Criteria mentioned in Section M**, and a technical score shall be assigned to each bidder with respect to the evidentiary proofs submitted by the bidder in the prescribed formats/ documents.

**If the number of qualified bidders exceeds 05, the Technical Qualification marking criteria shall be applied to finalize the first five technically qualified bidders.**



## **SECTION P – EVALUATION PROCESS OF PRICE BID:**

Only those bidders who are declared technically qualified in accordance with the Technical Evaluation Criteria specified in this RFP shall be eligible for the opening of their Price Bids.

**The Authority reserves the right, at its sole discretion, to declare the successful bidder based on the L1 Price Bid or to conduct an e-Reverse Auction. The decision to conduct an e-Reverse Auction shall rest entirely with the authority and may be exercised depending upon the requirements and circumstances of the bidding process. Accordingly, bidders are advised to submit their most competitive and best price at the time of Price Bid submission.**

### **Process and Terms for Price Evaluation and e-Reverse Auction:**

#### **E- REVERSE AUCTION**

- 1) GIPCL reserves the right to conduct E-Reverse auction through (n) Procure platform.
- 2) E-Reverse auction shall be conducted amongst (a) the lowest 50% eligible bidders (rounded to the next higher whole number) from the total bids received OR (b) Minimum three (03) lowest bidders, whichever is higher, shall be invited for participation in e-Reverse Auction through n-procure platform.
- 3) Opening Price, Detrimental value and duration for the e-Reverse Auction shall be informed to the qualified bidders before start of e-Reverse Auction.
- 4) After e-Reverse Auction process, L1 bidder shall be decided on Lowest Total Contract Price.
- 5) In case GIPCL declares to notify the successful bidder on the L1 price bid basis, the lowest price bid submitted by the technically qualified bidders shall be considered.
- 6) In case GIPCL declares to finalize the successful bidders through e-Reverse Auction, the L1 price bid submitted by technically qualified bidders shall be considered as the ceiling price for E-Reverse Auction through the nProcure platform.
- 7) GIPCL reserves the right to conduct an e-Reverse Auction through the nProcure platform or to finalize the bidder on an L1 basis, at its sole discretion, from among the technically qualified bidders.
- 8) To participate in e-Reverse Auction, Bidders have to create e-Auction USER ID on **<https://e-auction.nprocure.com>** that the bidder shall be allowed to participate the e-Reverse Auction.
- 9) In case of any further information regarding online bidding or if a Bidder needs any assistance in accessing/ submission of online bid/ clarification or if training is required for participating in online e-reverse bidding, then the Bidder can contact the following office for assistance or training:

(n) Procure Cell, (n) code solutions-A division of GNFC Ltd.,

#### **Head Office**

- (n)Code Solutions (A Division of GNFC Ltd.)
- 14th Floor, Tower One, Road 5C, Zone 5,
- Gujarat Information Finance Tech City (GIFT City),



- Gandhinagar - 382355. India.
- Toll Free Number : 7359-021-663
- Support: 079- 4000 7517/515/514
- Email : nprocure@ncode.in

(n)Code Solutions (A Division of GNFC Ltd.) 403, GNFC Infotower, S.G.Highway, Bodakdev, Ahmedabad - 380054. Support Phone: 079-40007517/515/514 email: nprocure@ncode.in



## **SECTION Q – DE-INSTALLATION AND DISPOSAL EXISTING EQUIPMENTS:**

The bidder shall be responsible for the de-installation and disposal of existing hardware in an environmentally compliant manner as per government guideline & e-waste policy. The bidder must bear the cost for dismantling and de-installation of existing equipment in their proposal, and no additional cost shall be borne by GIPCL for these activities. All equipment will be disposed of except for the servers, as the old server will remain for backup. **Bidder shall consider appropriately the price of old hardware while submitting the price bid under RFP.**



| EXISTING HARDWARE |                  |      |          |       |  |                      |                              |
|-------------------|------------------|------|----------|-------|--|----------------------|------------------------------|
| Sr.               | Item Description | Qty  | Make     | Model | Serial Number  | Under warranty (Y/N) | Date of Purchase             |
|                   |                  | (A3) |          |       |  |                      |                              |
| 1                 | UHF RFID Reader  | 48   | CSL      | CS208 | 00057B850023,00057B850052,00057B85002B, 00057B850066, 00057B850030, 00057B850054, 00057B85002B, 00057B850022, 00057B850038, 00057B850037, 00057B850051, 00057B850033, 00057B850030, 00057B850027,00057B85002D, 00057B85003C,00057B85003A,00057B85003B , 00057B850025, 00057B850034, VB61411ES0045, 00057B850043,00057B850070,00057B850067, 00057B85003D,00057B850059, VB61411ES0074, VB61411ES0049,00057B850032, VB61421ES009, B6141ES0026,00057B85002F, VB61411ES0047, 00057B850060, 00057B85004B, 00057B85004E, 00057B85005D, VB61421ES0059, 00057B850045, 00057B85003D,00057B85004F, 00057B850066, VB61421ES0075, 00057B85004D, 00057B85005F,00057B85005A, VB61421ES0055, VB61421ES0091 | N                    | 14-02-2014                   |
| 2                 | UHF RFID Reader  | 05   | STALLION | BR12L | 20190110004, BRLC24520058, BRLC24520056, BRLC24520060, BRLC24520051  | N                    | N/A<br>Replaced<br>Under AMC |



|   |                               |    |                              |  |   |   |            |
|---|-------------------------------|----|------------------------------|--|---|---|------------|
| 3 | Boom Barrier                  | 03 | BGI                          | L1000SV  | Not Available- Local brand  | N | 14-02-2014 |
| 4 | Controller For RFID Reader    | 30 | Nakalank & ISPL              | IP base controller   | Not Available- Local brand  | N | 14-02-2014 |
| 5 | Traffic Light for RFID System | 32 | ENVOYS                       | LED  | Not Available- Local brand  | N | 14-02-2014 |
| 6 | PTZ IP Camera                 | 11 | Polixel (3)<br>Honeywell (8) | CPLX301,<br>HSD-361PW-<br>NETS,<br>HISD-371WE,<br>HDZ302LIK,<br>I-HIP2PI-S33X) | 000DF110A771, 000DF110A773,<br>000DF110A775<br>004A20A931D5, 004A20A92FBA,<br>004A20A93B55<br>02630123CA258CF8C84B,<br>02630123CA258CF93648<br>B273500108, B240500224<br>484889C4032A00093  | N | 14-02-2014 |
| 7 | Fixed IP Camera               | 20 | Honeywell                    | HICC-P-<br>0100EIRV<br>HBW4PER2  | 000EAEA34F3E, 000EAEA309B1,<br>000EAEA34F76, 000EAEA3433A,<br>000EAEA34FA3, 000EAEA3098F,<br>000EAEA30F73, 000EAEA34FD1,<br>000EAEA34F73, 000EAEA30A8C,<br>000EAEA3438A, 000EAEA34F65,<br>000EAEA34FD2, 000EAEA34F70<br>B266E00342, B266E00899, B266E00362,<br>B266E00116, B266E00627, B266E00908 | N | 14-02-2014 |
| 8 | 3 KVA UPS                     | 03 | EATON                        | 91453000IN   | ZK047A2031, ZK047A2024, ZK047A2006  | N | 31-03-2016 |
| 9 | 1 KVA UPS                     | 17 | EATON                        | 91451000IN   | ZJ475A2021, ZK141A2022, ZK141A2013,<br>ZK063A2015, ZK141A2014, ZK141A2002,<br>ZJ487A2009, ZK141A2019, ZJ487A2010,<br>ZK141A2011, ZK141A2023, ZK141A2006,<br>ZK055A2006, ZK142A2021, GH216A2000,<br>ZK064A2002, ZK141A2021   | N | 31-03-2016 |



## **SECTION R – ANNEXURES:**

### **ANNEXURE A: LIST OF LOCATIONS**

Gujarat Industries Power Company Limited (Surat Lignite Power Plant)

At & Post: Village – Nani Naroli,

Taluka: Mangrol,

District: Surat (Gujarat),

PIN: 394 112.

#### **List of Mines and Offices (Detailed Location to be submitted by GIPCL)**

1. Vallia Limestone Mines
2. Vastan Lignite Mine
3. Vastan Limestone Mines
4. Mangrol Lignite Mines
5. SLPP Admin Offices
6. Data Center located in SLPP Township (For Servers)



## ANNEXURE – I- COVERING LETTER

Date: dd/mm/yyyy

To,  
General Manager (M&C)  
Gujarat Industries Power Company Limited (GIPCL)  
P.O. Ranoli,  
District: Vadodara – 391 350. Gujarat.

Reference: E- Tender No: GIPCL/SLPP/RFID/26-27/01 dated <DD/MM/YYYY> issued for “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines”

Dear Sir,

We, the undersigned, offer to provide the services and support for “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines” in accordance with referenced E-tender. We are hereby submitting our proposal, which includes this pre-qualification proposal, technical proposal and an online commercial proposal submitted along with requisite EMD.

We hereby declare that:

- We offer to provide service and support for required components with respect to the requirements detailed in the RFP and provide the services at the prices and rates mentioned in the commercial proposal submitted online.
- All the information and statements made in our Proposal are true and accept that any misrepresentation contained in it may lead to our disqualification.
- We are not banned or blacklisted by any State / Central Government organization in India.
- There are no deviations from the requirement specifications of tendered items and schedule of requirements.
- There are no deviations from the terms and conditions of the tender.



- In the event of acceptance of our bid, we do hereby undertake:
  - ✓ To design, develop, install & implement the required solution with respect to the requirements detailed in the RFP and provide respective services.
  - ✓ To undertake the project and provide full support during the project execution, for revenue as mentioned in the commercial proposal.
  
- We affirm that the prices quoted are inclusive of software development cost, installation, at desired location of GIPCL, and support charges and inclusive of all freight, levies, etc.
- We enclose herewith the complete Technical Proposal along with this covering letter as required by you. This includes:
  - Proposed solution architecture and services offered as per RFP
  - Proposed Project Plan and Implementation Schedule
  - Schedule of delivery
  - Warranty
  - Comprehensive AMC
  - Manufacturer's authorization form(s) if any
  - Demand Drafts for Bid Security as per the requirement of RFP as indicated in "Important Information" are enclosed in the cover containing pre-qualifying requirements

We agree to abide by our offer for a period of 180 days from the last date of submission of proposal prescribed by GIPCL and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender. We do hereby undertake to provision as per these terms and conditions.

We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and notification of award of contract, shall constitute a binding contract between us.



|                       |  |
|-----------------------|--|
|                       | Signature of Bidder (with official seal) |
| Date                  |  |
| Name                  |  |
| Designation           |  |
| Address               |  |
| Telephone             |  |
| Fax                   |  |
| E-mail Address        |  |
| Detail of Enclosures: |  |
| a)                    |  |
| b)                    |  |
| c)                    |  |



**ANNEXURE – II – MAKE AND MODEL**

| <b>HARDWARE COMPONENTS -PHASE 1</b> |   |             |              |   |
|-------------------------------------|---|-------------|--------------|---|
| <b>Sr. No</b>                       | <b>Description</b>  | <b>Make</b> | <b>Model</b> | <b>Page no. of Physical Bid for Supporting Document</b> |
| <b>A</b>                            | <b>Weighbridge and Boom Barrier</b>   |             |              |   |
| 1                                   | UHF RFID Reader   |             |              |   |
| 2                                   | UHF RFID Tag  |             |              |   |
| 3                                   | IP CCTV Bullet Camera   |             |              |   |
| 4                                   | IP CCTV PTZ Camera  |             |              |   |
| 5                                   | 24 Port managed Network switch <b>POE gigabit switch</b> ,2 combo copper uplink+ 2 SFP module with PoE +support (SFP included) with 6U Cabinet enclosure/Rack |             |              |   |
| 6                                   | IoT Based Controller  |             |              |   |
| 7                                   | Signal Light — Red & Green Set,   |             |              |   |
| 8                                   | 1 KVA UPS   |             |              |   |
| 9                                   | 3 KVA UPS   |             |              |   |
| 10                                  | Boom Barrier with safety sensors, loop detector, IR sensor, photo sensor and related all Accessories  |             |              |   |
| <b>B</b>                            | <b>Proposed Other IT Hardware &amp; Materials</b>   |             |              |   |
| 1                                   | Application Server Application Server with license copy of latest MS windows OS, as per technical specification   |             |              |   |
| 2                                   | Database Server with license copy of latest MS windows OS & Database server software, as per technical specification  |             |              |   |
| 3                                   | Video Management (VMS) Server Hardware — with MS Windows Server OS Licence as per technical specification   |             |              |   |



|                                     |  |  |  |  |
|-------------------------------------|--|--|--|--|
| 4                                   | Desktop PC for Weighbridges — as per technical specification   |  |  |  |
| 5                                   | Miscellaneous Items — Poles, Fabricated Structures, Junction Boxes, Mounting Hardware, Cables, Conduits, Fasteners etc. (complete as required)                                   |  |  |  |
| <b>HARDWARE COMPONENTS -PHASE 2</b> |  |  |  |  |
| 1                                   | IP CCTV ANPR Bullet Camera   |  |  |  |
| 2                                   | IR Based Vehicle Positioning Sensor Set — 3 Pairs per weighbridge, MS/GI Square Tube Pole (72×72mm, 2mm thick), 3-axis adjustable clamp, auto-detect faulty sensor; complete set |  |  |  |
| 3                                   | PA System with LED Display — 30W RMS Amplifier, IP-rated Speaker, LED Display 36”×12” Red, Gujarati/Hindi Voice Configurable, Event-Triggered, IP56; with all accessories        |  |  |  |
| 4                                   | Video Analytics Server Hardware —with OS Licence, As per technical specification   |  |  |  |

| <b>SOFTWARE COMPONENTS -PHASE 1</b> |   |      |       |  |
|-------------------------------------|---|------|-------|--|
| Sr. No                              | Description   | Make | Model | Page no. of Physical Bid for Supporting Document |
| 1                                   | GILDMS Weighbridge Desktop Client Software — 12 weighbridges, Windows compatible, RS-232 digitizer interface, RFID integration, operator dashboard; full source code ownership to GIPCL |      |       |  |



|                                     |   |  |  |  |
|-------------------------------------|---|--|--|--|
| 2                                   | GILDMS Server Application Software incl. Web-Based Application — transaction engine, vehicle tracking, role-based dashboards, MIS reports, admin module; full source code ownership to GIPCL, provision of outside mineral /Imported coal/ Raw Material procurement |  |  |  |
| 3                                   | GILDMS All Supported Software Services & Integration — CGM E-Royalty (bidirectional API), Integration with SAP ERP IoT controller interface, CCTV trigger, alert gateway (SMS/WhatsApp/Email), offline buffer & sync logic  |  |  |  |
| 4                                   | VMS Software — N+1 Dual Server Failover, 75 Camera Licences, Web Client, Mobile App (iOS/Android), H.264/H.265, ONVIF Profile S/G/T/M, 30-day min retention, LDAP/AD auth with 3-year warranty & updates  |  |  |  |
| 5                                   | Installation, Configuration & Integration of All Hardware & Software Systems incl. data migration from legacy GILDMS, CERT-In Security Audit & Safe-to-Host Certificate   |  |  |  |
| <b>SOFTWARE COMPONENTS -PHASE 2</b> |   |  |  |  |
| 1                                   | Video Analytics Software (VAS) — 15 ANPR Camera Licences, AI/ML LPR >98% accuracy, CERT-In Audited, ONVIF compatible, 3 <sup>rd</sup> party VMS integration, Gujarati/Hindi OCR, 24x7 unattended; 3-year warranty & updates   |  |  |  |

**PLEASE REFER TO SECTION I FOR DETAILED TECHNICAL SPECIFICATIONS OF PROPOSED HARDWARE AND SOFTWARE**



**NOTE:**

- ❖ Bidder has to compulsory quote for single OEM make & model of each & every item. The bid with multiples OEM & Models will be treated as non-compliance & that bid will be liable for rejection for further evaluation.
- ❖ Any deviation in the proposed make and model must be clearly specified in the Deviation Statement(**Annexure-XV**); however, any such deviation that does not meet or falls above the prescribed technical specifications shall not be accepted.
- ❖ Bidder cannot quote / propose those products whose OEM (Original Equipment Manufacturer) belonging to a country which shares a land border with India.



**ANNEXURE – III– PRICE BID FORMAT**

| Sr. No:  | <b>PRICE BID: SCHDEULE A – SUPPLY, INSTALLATION, GO-LIVE WITH ONSITE WARRANTY SERVICE AND SUPPORT FOR 01 YEAR</b>   |      |       |           |                |            |                  |                       |
|----------|---|------|-------|-----------|----------------|------------|------------------|-----------------------|
|          | Description   | UoM  | Qty   | Unit Rate | AMT.           | GST rate % | Tax AMT          | Total Amt. with taxes |
|          | (A1)  |      | (B1)  | (C1)      | (D1) = (B1xC1) | (E1)       | (F1) = D1xE1/100 | (G1) = (D1+F1)        |
| <b>A</b> | <b>HARDWARE COMPONENTS – PHASE-1</b>  |      |       |           |                |            |                  |                       |
| 1        | UHF RFID Reader with related all Accessories, including all type of cables & mounting accessories   | Nos  | 55    |           |                |            |                  |                       |
| 2        | UHF RFID Tag  | Nos. | 1,000 |           |                |            |                  |                       |
| 3        | IP CCTV- Bullet Camera with IR illuminator with related all Accessories including all type of cable & mounting accessories                                    | Nos  | 22    |           |                |            |                  |                       |
| 4        | IP CCTV- PTZ Camera with IR illuminator with related all Accessories including all type of cable, mounting accessories  | Nos  | 12    |           |                |            |                  |                       |
| 5        | 24 Port managed Network switch <b>POE gigabit switch</b> ,2 combo copper uplink+ 2 SFP module with PoE +support (SFP included) with 6U Cabinet enclosure/Rack | Nos  | 2     |           |                |            |                  |                       |
| 6        | IoT based Controller with related all Accessories &, cables   | Nos  | 19    |           |                |            |                  |                       |
| 7        | Signal Light (Set of Red & Green) with related all Accessories, cables and mounting accessories   | Nos. | 34    |           |                |            |                  |                       |



|          |  |      |    |  |  |  |  |  |
|----------|--|------|----|--|--|--|--|--|
| 8        | 1 KVA UPS (1 Hrs) with related all Accessories   | Nos  | 17 |  |  |  |  |  |
| 9        | 3 KVA UPS (1 Hrs) with related all Accessories   | Nos  | 4  |  |  |  |  |  |
| 10       | Boom Barrier with safety sensors, loop detector, IR sensor, photo sensor and related all Accessories   | Nos  | 5  |  |  |  |  |  |
| 11       | Application Server with license copy of latest Windows server OS   | Nos. | 2  |  |  |  |  |  |
| 12       | Database Server with license copy of latest Windows server OS & Database server software   | Nos. | 2  |  |  |  |  |  |
| 13       | Video Management (VMS) Server Hardware with license copy of latest Windows server OS   | Nos. | 2  |  |  |  |  |  |
| 14       | Desktop PCs for weighbridges with on board serial port and speaker with License Windows 11 OS  | Nos. | 13 |  |  |  |  |  |
| 15       | Miscellaneous Items — Poles, Fabricated Structures, Junction Boxes, Mounting Hardware, Cables, Conduits, Fasteners, miscellaneous accessories/components etc. (complete as required) | lot  | 1  |  |  |  |  |  |
|          | <b>TOTAL AMOUNT OF (A)</b>   |      |    |  |  |  |  |  |
| <b>B</b> | <b>HARDWARE COMPONENTS - PHASE-2</b>   |      |    |  |  |  |  |  |
| 1        | IP CCTV- ANPR Bullet Camera with IR illuminator with related all Accessories including pole, mounting accessories  | Nos. | 15 |  |  |  |  |  |
| 2        | IR Based Vehicle Positioning Sensor Set — 3 Pairs per weighbridge with required  | Nos. | 36 |  |  |  |  |  |



|          |  |      |    |  |  |  |  |  |
|----------|--|------|----|--|--|--|--|--|
|          | all accessories including pole, mounting accessories   |      |    |  |  |  |  |  |
| 3        | PA System with LED Display with required all accessories, including pole, mounting accessories   | Nos. | 14 |  |  |  |  |  |
| 4        | Video Analytics server hardware with licensed operating system   | Nos. | 1  |  |  |  |  |  |
|          | <b>TOTAL AMOUNT OF (B)</b>   |      |    |  |  |  |  |  |
|          | <b>TOTAL A + B (HARDWARE COMPONENTS PHASE 1 &amp; 2)</b>   |      |    |  |  |  |  |  |
| <b>C</b> | <b>SOFTWARE COMPONENTS – PHASE-1</b>   |      |    |  |  |  |  |  |
| 1        | GILDMS Weighbridge Desktop Client Software for 12 Nos. of weighbridges   | Nos. | 1  |  |  |  |  |  |
| 2        | GILDMS Server Application Software incl. Web-Based Application for vehicle tracking, role-based dashboards, MIS reports, admin module; provision of outside material/imported coal/ Raw Material procurement     | Nos. | 1  |  |  |  |  |  |
| 3        | GILDMS All Supported Software Services & Integration with third party software like CGM's E-Royalty system and SAP ERP, alert message gateway (SMS/WhatsApp/Email), offline buffer & data sync logic with server | Nos. | 1  |  |  |  |  |  |
| 4        | VMS Software — N+1 Dual Server Failover, 75 Camera Licences, Web Client, Mobile App (iOS/Android), H.264/H.265, ONVIF Profile S/G/T/M,   | Nos. | 1  |  |  |  |  |  |



|          |  |      |   |  |           |  |           |           |
|----------|--|------|---|--|-----------|--|-----------|-----------|
|          | 30-day min retention, Latest license Version with 3-year warranty & updates  |      |   |  |           |  |           |           |
|          | <b>TOTAL AMOUNT OF (C)</b>   |      |   |  |           |  |           |           |
| <b>D</b> | <b>SOFTWARE COMPONENTS - PHASE-2</b>   |      |   |  |           |  |           |           |
| 1        | Video Analytics Software (VAS) with 15 ANPR Camera Licences, AI/ML LPR >98% accuracy, CERT-In Audited, ONVIF compatible, 3rd party VMS integration, Gujarati/Hindi OCR, 24x7 unattended; 3-year warranty & updates | Nos. | 1 |  |           |  |           |           |
|          | <b>TOTAL AMOUNT OF (D)</b>   |      |   |  |           |  |           |           |
|          | <b>TOTAL COST OF HARDWARE COMPONENTS, SOFTWARE COMPONENTS AND SERVICES (A+B+C+D) SCHEDULE A IN RS.</b>   |      |   |  | <b>T1</b> |  | <b>T2</b> | <b>T3</b> |

| <b>SCHEDULE B – IMPLEMENTATION &amp; SUPPORT SERVICES</b> |                    |            |             |                  |                        |                   |                         |                              |
|---|--------------------|------------|-------------|------------------|------------------------|-------------------|-------------------------|------------------------------|
| <b>Sr. No.</b>  | <b>Description</b> | <b>UoM</b> | <b>Qty</b>  | <b>Unit Rate</b> | <b>AMT.</b>            | <b>GST rate %</b> | <b>Tax AMT</b>          | <b>Total Amt. with taxes</b> |
|   | <b>(A2)</b>        |            | <b>(B2)</b> | <b>(C2)</b>      | <b>(D2) = (B2x C2)</b> | <b>(E2)</b>       | <b>(F2) = D2xE2/100</b> | <b>(G2) = (D2+F2)</b>        |



|   |  |      |    |  |  |  |  |  |
|---|--|------|----|--|--|--|--|--|
| 1 | Civil Works — RCC base Foundation as per industrial standard requirement for RFID readers, boom barriers, CCTV camera, traffic signal lights, positioning sensor and PA system pole requirements | Nos. | 10 |  |  |  |  |  |
| 2 | Civil Works – RCC foundation for install Boom barrier ,loop detector and Photo sensor  | Nos. | 5  |  |  |  |  |  |
| 3 | Electrical Works — Power cabling, distribution boards, earthing, power extension to all new equipment positions (Source power supply will be provided by GIPCL)                                  | Lot  | 1  |  |  |  |  |  |
| 4 | Complete hardware & Software System installation, commissioning and Integration, End-to-End Testing & User Acceptance Testing (UAT) till successful Go-Live                                      | lot. | 1  |  |  |  |  |  |



|                                     |  |      |   |  |           |  |           |           |
|-------------------------------------|--|------|---|--|-----------|--|-----------|-----------|
| 5                                   | User Training & Project Documentation — As-Implemented Architecture, Asset Register, User Manuals, Admin Manuals, Troubleshooting Guide, Security Audit Reports. Training to Mining staff/supervisor, operator, IT staff | Lot. | 1 |  |           |  |           |           |
| 6                                   | Third-Party Security Audit — CERT-In Empanelled Auditor, VAPT, OWASP Compliance & Safe-to-Host Certificate (pre-Go-Live)   | Lot. | 1 |  |           |  |           |           |
| 7                                   | Warranty Period Onsite Manpower — Minimum 2 Qualified Support Engineers, 24x7x365, Quarterly Preventive Maintenance, (1 Year)  | Lot. | 1 |  |           |  |           |           |
| <b>TOTAL AMOUNT OF (SCHEDULE B)</b> |  |      |   |  | <b>T4</b> |  | <b>T5</b> | <b>T6</b> |

| <b>SCHEDULE C - CAMC COST IN INR (Including on-site 02 Nos. of manpower support)</b> |                                   |        |      |           |                |            |                  |                |
|--|-----------------------------------|--------|------|-----------|----------------|------------|------------------|----------------|
| Sr.  | Description                       | UoM    | Qty  | Unit Rate | AMT.           | GST rate % | Tax AMT          | Total Amt.     |
| No:  | (A3)                              |        | (B3) | (C3)      | (D3) = (B3xC3) | (E3)       | (F3) = D3xE3/100 | (G3) = (D3+F3) |
| 1  | CAMC cost of 2 <sup>nd</sup> year | Yearly | 1    |           |                |            |                  |                |



|   |                                   |        |   |  |           |           |           |  |
|---|-----------------------------------|--------|---|--|-----------|-----------|-----------|--|
| 2   | CAMC cost of 3 <sup>rd</sup> year | Yearly | 1 |  |           |           |           |  |
| 3   | CAMC cost of 4 <sup>th</sup> year | Yearly | 1 |  |           |           |           |  |
| 4   | CAMC cost of 5 <sup>th</sup> year | Yearly | 1 |  |           |           |           |  |
| <b>Total of Schedule C in Rs.</b>   |                                   |        |   |  | <b>T7</b> | <b>T8</b> | <b>T9</b> |  |
| <b>SCHEDULE D - OPTIONAL CAMC COST IN INR (Including on-site 02 Nos. of manpower support)</b> |                                   |        |   |  |           |           |           |  |
| 5   | CAMC cost of 6 <sup>th</sup> year |        |   |  |           |           |           |  |
| 6   | CAMC cost of 7 <sup>th</sup> year |        |   |  |           |           |           |  |

**Note: The CAMC for the 6th and 7th years shall be optional in nature. The CAMC from the 2nd year to the 5th year shall be mandatory and shall be considered for evaluation purposes. The cost of CAMC for the 6th and 7th years shall not be considered for the determination of the L1 bidder, as the same shall be treated as an additional and optional scope of work. Accordingly, it shall be at the discretion of the bidder to quote the CAMC charges for the 6th and 7th years. Such quoted rates, if provided, shall be considered only for estimation purposes in the event GIPCL opts to extend the Comprehensive CAMC for further years.**

| <b>SCHEDULE E: SUMMARY OF ALL COST COMPONENTS</b> |                        |                              |                           |                           |
|---|------------------------|------------------------------|---------------------------|---------------------------|
| Sr.   | Description            | Total cost (Excluding Taxes) | Total GST Amount          | Total Amount with Taxes   |
| 1   | Total Price Bid in Rs. | <b>T10 = T1 + T4 + T7</b>    | <b>T11 = T2 + T5 + T8</b> | <b>T12 = T3 + T6 + T9</b> |

**IMPORTANT NOTE:**

- For serial number **1 & 2** of **Schedule-B**, the quantity may be increased or decreased based on actual requirements, however same Unit rate applicable on each additional requirement of civil RCC foundation till successful Go-Live, the final total amount shall be calculated based on actual requirements after verification done by GIPCL's officials.



- Existing Civil, electrical & network infrastructure will be utilized wherever feasible or approval by GIPCL.
- GIPCL shall provide the existing network and Electrical infrastructure up to the nearest junction point. Connectivity from the nearest junction point to the hardware components shall be under the successful bidder's scope.
- Required software licenses to be included in the submitted bid.
- Above SCHEDULE E will be used for Price Bid evaluation purpose. T12 will be used for price bid evaluation purpose.**
- Above quoted rates are valid for 180 days from the work order date.**
- Bidder needs to quote composite rate i.e. CGST + SGST + CESS or IGST + CESS as the case may be. In absence of any clarification, it will be construed that quoted price are inclusive of all types of taxes and duties.
- Any changes in Govt. Taxes / Duties would be applicable as on actual at the time of invoice being raised.

**1) Bidder is not permitted to reuse any of the old components in the current project deployment irrespective of their operational health and compatibility.**

2) Bidder has to decide on its own for re-using existing cabling and wiring in order to match the SLA compliance and prevention of penalty implementation up to the contract completion period (including warranty + CAMC phase).



**ANNEXURE - IV: DECLARATION CUM UNDERTAKING FOR SAFETY LAWS AND REGULATIONS COMPLIANCE**

*(To be submitted on Company's Letter Head)*

I \_\_\_\_\_ on behalf of .....Name of Party/Company .....hereby confirm, agree and undertake that all the Statutory and Safety Laws and Regulations of the applicable Authority/ies shall be strictly followed for all types of works at the site during the period of the Contract, if awarded to me.

Company Seal

Signature .....

Name .....

Designation .....

Company.....

Date.....



**ANNEXURE -V: DECLARATION FOR CONTRACTUAL LITIGATIONS**

*(To be submitted on Company's Letter Head)*

**Please Tick (✓) whichever is correct option**

I \_\_\_\_\_ on behalf of .....Name of Party/Company .....hereby confirm that I /We have

- a. Not invoked legal recourse e.g. litigation against any Govt. of Gujarat Undertakings / Depts. / Authorities and Govt. of Gujarat supported companies / undertakings / organizations for the last three (03) years. There are no ongoing / pending legal matter(s) with any of the Govt. of Gujarat Undertakings / GoG supported Companies, including GIPCL.

**Please Tick (    )**

**OR**

- b. Invoked legal recourse e.g. litigation against any Govt. of Gujarat Undertakings / Depts. / Authorities and Govt. of Gujarat supported companies / undertakings / organizations for the last three( 03) years.

**Please Tick (    )**

If “b” is applicable, please submit the details for the same.

The above is true, as on date, to the best of my knowledge. Any breach/ false statement in this regard shall amount to disqualification of the Bid being submitted herein.

Company Seal

Signature .....

Name .....

Designation .....

Company.....

Date.....



**ANNEXURE -VI DECLARATION ABOUT THE SITE VISIT:**

I / We do hereby confirm and declare that I / We have independently inspected Surat Lignite Power Plant (SLPP), GIPCL in Surat district and have ascertained & obtained all relevant & necessary information, data, particulars, conditions of services & availability of workforce, facilities available, existing industrial environment and other working conditions etc.

I / We have also assessed the risk associated with the work whether apparent or inherent to the nature of work involved and satisfied our self as to the nature, condition, quantum, extent, scope and magnitude of the work involved in the contract, type and condition of the ground, working conditions of the area, availability of power supply, water supply, men and machinery requirement, availability of land, etc.

I / We do hereby agree and undertake not to raise any dispute and / or objection at any stage on any ground whatsoever, during the currency of the contract if awarded to me/us.

Company Seal

Signature .....

Name .....

Designation .....

Company.....

Date.....



**ANNEXURE - VII: MANUFACTURER'S AUTHORIZATION FORMAT**

(To be executed on Letter Head by OEM of UHF RFID reader, Boom Barrier, IoT based controller, Signal Light, CCTV Camera & Server Hardware with 05 years' onsite warranty and CAMC support & Service).

No: -

Dated: - XXXX

To,  
General Manager (M&C)  
Gujarat Industries Power Company Limited (GIPCL)  
P.O. Ranoli,  
District: Vadodara – 391 350.  
Gujarat.

**Subject: - Authorization to System Integrator for supply & support.**

Ref: E- Tender No: GIPCL/SLPP/RFID/26-27/01 issued for “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines”

Dear Sir,

This is with referenced tender & subject. We, OEM, certify that **(Bidder Name)**, having their registered office at **(Bidder Address)** is an authorized partner to bid against referenced tender enquiry on behalf of us.

As OEM, we ensure to provide support & services to **(Bidder Name)** for following quoted products from date of bid submission by **(Bidder Name)** till contract completion period. Also, we, as OEM ensure that product quoted (Make: \_\_\_\_Model: \_\_\_\_ ) are not **End of Life** and we shall support spares, patches for quoted products and they would be available for next 05 years from project Go-Live date.

| Sr. No: | Product description | Make | Model |
|---------|---------------------|------|-------|
|         |                     |      |       |

Yours faithfully,

(Authorized Signatory)  
Signature & Seal OEM  
Name:  
Designation:  
Place:  
Date:



**ANNEXURE- VIII: BIDDER INFORMATION SHEET & UNDERTAKING:**

|                                      |  |
|--------------------------------------|--|
| <b>About the Company</b>             |  |
| Name of the Company:                 |  |
| Postal Address (Regd. Office):       |  |
| Postal Address (Local Office):       |  |
| Constitution, Registration No./Date: |  |
| Income Tax PAN No:                   |  |
| GST Registration No.:                |  |

**About the Authorized Signatory:**

|                 |  |              |  |
|-----------------|--|--------------|--|
| Name:           |  | Designation: |  |
| Office Address: |  | Email:       |  |
| Tel/Fax Nos:    |  | Cell No:     |  |

**Undertaking**

On behalf of M/s ..... (Name of bidder), I, undersigned, state that all information stated above as well as in other parts of our bid is true. I hereby undertake and agree to abide by all terms and conditions stipulated in this RFP including all addendum, corrigendum etc. Any deviation may result in disqualification of our bid. I also do hereby affirm and comply with all terms & conditions, technical specifications of products mentioned in RFP as well as all addendum, corrigendum etc. while performing contractual obligations relating to “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines”. Also, I do affirm and assure that product proposed by us is complete and meeting all functional requirements in totality of project as stated in tender document.

Yours faithfully,

(Authorized Signatory)  
 Company Seal  
 Name .....  
 Designation .....  
 Company.....  
 Date.....



## ANNEXURE - IX: BANK DETAILS OF BIDDER

(Please fill all information in block letters)

**NAME OF PARTY** :

**Details of Bank Account** :

(1) Name of the Bank :

(2) Branch & Address of Bank :

(3) MICR No. :

(4) Type of Bank Account (Savings/Current etc.) :

(5) Bank Account No. :

(6) PAN No. :

(7) IFSC Code No. :

**Along with cancel cheque copy of above account**

The above information of company's bank account is true & correct as per my knowledge.

Yours faithfully,

(Authorized Signatory)

Company Seal

Name .....

Designation .....

Company.....

Date.....



**ANNEXURE - X: EARNEST MONEY DEPOSIT (EMD) BANK GUARANTEE  
FORMAT**

**(To be executed on non-judicial stamped paper of appropriate value)**

Bank Guarantee No.....

Date.....

1. WHEREAS M/s. Gujarat Industries Power Company Limited having its Corporate Office at PO: RANOLI, Dist. Vadodara – 391 350, Gujarat State, India (hereinafter called “The Company Owner” which expression shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) has issued tender paper vide its E-Tender No.....for -  
..... (hereinafter called “the said tender”) to M/s. ....  
(hereinafter called the said Tenderer(s)” which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns and as per terms and conditions of the said tender, the tenderer shall submit a Bank guarantee for Rs..... (Rupees..... only) towards earnest money in lieu of cash.
2. We ..... Bank having its branch office at ..... do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Company stating that in the opinion of the company which is final and binding, the amount claimed is due because of any withdrawal of the tender or any material alteration to the tender after the opening of the tender by way of any loss or damage caused to or would be caused or suffered by the Company by reason of any breach by the said tenderer(s) of any of the terms and conditions contained in the said tender or failure to accept the Work Order or that the amount covered under this Guarantee is forfeited. Any such demand made on the Bank by the owner shall be conclusive as regards the amount due and payable by the Bank under this guarantee, However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....(Rupees..... only).
3. We undertake to pay to the Company any money so demanded no withstanding any dispute or disputes raised by the tenderer(s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the owner proceeding against the tenderer.
4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or change of constitution or insolvency of the said tenderer(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/ Order(s) are fulfilled.



5. The Bank further unconditionally agrees with Gujarat Industries Power Company Limited (GIPCL) that Gujarat Industries Power Company Limited (GIPCL) shall be at liberty, without the Bank's consent and without affecting in any manner the Bank's obligation under this Guarantee, from time to time, to:
  - a. Vary and / or modify any of the terms and conditions of the work order.
  - b. Extend and / or postpone the time for performance of the obligations of the Contractor under the work order.
  - c. Forbear or enforce any of the rights exercisable by Gujarat Industries Power Company Limited (GIPCL) against the Contractor under the terms and conditions of the work order.
6. This guarantee shall be in addition to and not in substitution or in derogation of any other security held by Gujarat Industries Power Company Limited (GIPCL) to secure the performance of the obligations of the Contractor under the work order.
7. No action, event or condition, which by any Applicable Law should operate to discharge the Bank from liability hereunder, shall have any effect and the Bank hereby waives any right it may have to apply such law, so that in all respects its liability hereunder shall be irrevocable and, except as stated herein, unconditional in all respects.
8. We .....Bank Ltd. further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the finalization of the said tender and that it shall continue to be enforceable till the said tender is finally decided and order placed on the successful tenderer(s) and or till all the dues of the company under or by virtue of the said tender have been fully paid and its claims satisfied or discharged or till a duly authorized officer of the company certifies that the terms and conditions of the said tender have been fully and properly carried out by the said tenderer (s) and accordingly discharges the guarantee.
9. That the Owner Company will have full liberty without reference to us and without affecting this guarantee to postpone for any time or from time to time the exercise of any of the power of the owner under the tender.
10. Notwithstanding anything contained herein before, our liability shall not exceed Rs..... (Rupees.....only) and shall remain in force till..... (Date to be filled up shall be 180 days from the date of submission of Bid).

Date.....Bank

Corporate Seal of the Bank  
By its constitutional Attorney  
Signature of duly Authorized  
person On behalf of the Bank



**ANNEXURE - XI: PERFORMA FOR CONTRACT SECURITY-CUM-PERFORMANCE  
GUARANTEE BY CONTRACTOR**

BG No: \_\_\_\_\_

Date: \_\_\_\_\_

1. WHEREAS Gujarat Industries Power Company Limited having its office at PO: RANOLI, Dist. Vadodara – 391 350, Gujarat State, India (hereinafter referred to as “The Company / Owner” which expressions shall unless repugnant to the subject or context includes its legal representatives, successors and assigns) has entered into a contract with M/s. .... has placed a purchase order on M/s..... (hereinafter referred to as “Contractor(s) / Seller(s)” which expression shall unless repugnant to the subject or context includes their legal representatives, successors and assigns) for..... on the terms and conditions as set out inter alia, in the Company’s contract No./ P.O. No .... date ..... and various documents forming part thereof hereinafter referred to as the “said contract” which expression include all amendments, modifications and /or variations thereto and whereas the Contractor(s) / Seller(s) has agreed for due execution of the entire contract and guarantees its performance including any parts executed through any other agencies / subcontractors.

AND WHEREAS one of the conditions of the “said contract” is that “contractor(s)/ seller(s) shall furnish to the owner a Bank Guarantee from a bank for ....% (.....percent) of the total value of the “said contract” against due and faithful performance of the “said contract” including performance guarantee obligations of the contractor(s)/seller(s) for execution / supplies made under the “said contract.”

2. We .....Bank having its branch office at..... do hereby agree and undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the Company stating that in the opinion of the Company, which is final & binding, the amount claimed is due by reason of default made by the Contractor(s)/ Seller(s) in performing any of the terms & conditions of the said Contract including defect liability obligations, in fulfilling the performance guarantee obligation or loss or damage caused to or would be caused to or suffered by the Company by reason of any breach by the said Contractor (s)/ Seller(s) of any of the terms & conditions of the contract. Any such demand made on the Bank by the owner shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to Rs ..... (Rupees..... only).

3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/ Seller(s) in any suit or proceeding pending before any office, court or tribunal relating thereto our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be



- a valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the owner proceeding against the Contractor(s) / Seller(s).
4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or change of constitution or insolvency of the said Contractor(s)/ Seller(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said contract(s)/ Order(s) are fulfilled.
  5. The Bank further unconditionally agrees with Gujarat Industries Power Company Limited (GIPCL) that Gujarat Industries Power Company Limited (GIPCL) shall be at liberty, without the Bank's consent and without affecting in any manner the Bank's obligation under this Guarantee, from time to time, to:
    - a. Vary and / or modify any of the terms and conditions of the work order.
    - b. Extend and / or postpone the time for performance of the obligations of the Contractor under the work order.
    - c. Forbear or enforce any of the rights exercisable by Gujarat Industries Power Company Limited (GIPCL) against the Contractor under the terms and conditions of the work order.
  6. This guarantee shall be in addition to and not in substitution or in derogation of any other security held by Gujarat Industries Power Company Limited (GIPCL) to secure the performance of the obligations of the Contractor under the work order.
  7. No action, event or condition, which by any Applicable Law should operate to discharge the Bank from liability hereunder, shall have any effect and the Bank hereby waives any right it may have to apply such law, so that in all respects its liability hereunder shall be irrevocable and, except as stated herein, unconditional in all respects.
  8. This guarantee will remain valid up \_\_\_\_\_ days or \_\_\_\_\_ whichever is earlier. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that if this guarantee is extended for a period as mutually agreed between bidder & owner/purchaser, the guarantee shall be valid for a period so extended provided that a written request for such extension is received before the expiry of validity of guarantee.
  9. We .....Bank further agree with the Company that the company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract(s)/ Order(s) or to extend the time of performance by the said Contractor(s) Seller(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s)/ Seller(s) and to forbear or enforce any of the terms and conditions relating to the said Contract(s)/ Order(s) and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said



Contractor(s) / Seller(s) or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the said Contractor(s)/ Seller(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.

10. Notwithstanding anything contained herein before, our liability shall not exceed Rs.....(Rupees.....only) and shall remain in force till.....Unless a demand or claim under this Guarantee is made on us within three months from the date of expiry we shall be discharged from all the liabilities under this guarantee.

Date..... Bank

Corporate Seal of the Bank

By its constitutional Attorney  
Signature of duly Authorized person  
On behalf of the Bank  
With Seal & Signature code



**ANNEXURE- XII: FORMAT FOR SELF-DECLARATION – NO BLACKLISTING  
CERTIFICATE:**

No:

Date: <DD/MM/YYYY>

To,

General Manager (M&C)  
Gujarat Industries Power Company Limited (GIPCL)  
P.O. Ranoli,  
District: Vadodara – 391 350. Gujarat.

Ref: E- Tender No: GIPCL/SLPP/RFID/26-27/01 dated <DD/MM/YYYY> issued for “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines”

Dear Sir,

In response to the referenced tender, as an owner/partner/ director of \_\_\_\_\_, I/ We hereby declare that presently our company / firm \_\_\_\_\_ is having unblemished record and is not blacklisted for corrupt and fraudulent practices by any State / Central Government / PSU in India within last 03 years reckoned from tender floating date.

We further declare that presently our company / firm \_\_\_\_\_ is not blacklisted for dissatisfactory performance for supply, installation, testing, Go-Live & maintenance of materials / services mentioned in this tender document by any State / Central Government / PSU in India within last 03 years reckoned from tender floating date.

We further declare that presently our company / firm \_\_\_\_\_ is not blacklisted / debarred by any State / Central Government / PSU in India for supply, installation, testing, Go-Live & maintenance of materials / services mentioned in this tender document & carrying out operations and maintenance work of said materials / services within last 03 years reckoned from tender floating date.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/our security (either in form of EMD / Security deposit) may be forfeited in full and our bid if any to the extent accepted may be cancelled.

Yours Sincerely,

(Authorized Signatory)

Signature & Seal of bidder

Name:

Designation:

Place:

Date:



**ANNEXURE - XIII: UNDERTAKING AS PER GUIDELINES PUBLISHED BY  
MINISTRY OF FINANCE, DEPT. OF EXPENDITURE, PUBLIC PROCUREMENT  
DIVISION DATED 23.07.2020**

(To be submitted on the Letterhead of the Bidder and each quoted product OEM)

To,  
General Manager (M&C)  
Gujarat Industries Power Company Limited (GIPCL)  
P.O. Ranoli, District: Vadodara – 391 350. Gujarat.

Ref: E- Tender No: GIPCL/SLPP/RFID/26-27/01 dated <DD/MM/YYYY> issued for “Upgrade and Revamping of RFID-Based Hardware and Software Systems for Integrated Lignite, Limestone Dispatch Management and Procurement of Imported Coal at GIPCL – SLPP and Mines”

Dear Sir,

I, Mr. \_\_\_\_\_ undersigned authorized representative of M/s. <<Name of Company>> has read clause regarding restriction on procurement from a bidder of a country which shares a land border with India, I certify that quoted product from OEMs \_\_\_\_\_ are not from such a country or, of if from such a country, these quoted product/OEM have been registered with competent authority. I, Mr. \_\_\_\_\_ hereby certify that these quoted product/OEM fulfills all requirements in this regard and is eligible to be considered for procurement from referenced E-Tender.

In case, I am supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority, otherwise GIPCL reserves the right to take legal action on us including rejection of the submitted bid / termination of the contract as per the clause of termination / blacklisting us for a defined time period.

(Authorized Signatory)  
Signature & Seal of bidder  
Name:  
Designation:  
Place:  
Date:



**ANNEXURE - XIV: FORMAT OF AFFIDAVIT [TO BE SUBMITTED PHYSICALLY  
ON STAMP PAPER]**

(To be submitted IN ORIGINAL on Non-Judicial Stamping of Rs 300/- duly attested by Magistrate / Notary)

To,  
General Manager (M&C)  
Gujarat Industries Power Company Limited (GIPCL)  
P.O. Ranoli,  
District: Vadodara – 391 350.  
Gujarat.

Ref: E- Tender No: GIPCL/SLPP/RFID/26-27/01 dated <DD/MM/YYYY> issued for “Upgrade / Revamping of existing RFID based hardware and software systems for lignite & limestone dispatch management system at GIPCL – SLPP, Mangrol– Valia Mines site.”

Dear Sir,

I/We, \_\_\_\_\_, age \_\_\_\_\_ years residing at \_\_\_\_\_ in capacity of \_\_\_\_\_ M/s. \_\_\_\_\_ hereby solemnly affirm that

1. All General Instructions, General Terms and Conditions, as well as Special Terms & Conditions laid down on all pages of referenced E- Tender have been read carefully and understood properly by me which are completely acceptable to me and I agree to abide by the same.
2. I / We have submitted following Certificates / Documents for Pre-Qualification Criteria, Technical Evaluation as required as per General Terms & Conditions as well as Special Terms & Conditions of the tender

| Sr. No. | Name of the Document |
|---------|----------------------|
| 1       |                      |
| 2       |                      |

3. All Certificates / Permissions / Documents / Permits / Affidavits are valid as on date and have not been withdrawn / cancelled by concerned issuing authority.
4. It is clearly and distinctly understood by me that our bid is liable to be rejected if on scrutiny at any time, any of the required Certificates / Permissions / Documents / Permits / Affidavits is / are found to be invalid / wrong / incorrect / misleading / fabricated / expired or having any defect.
5. I / We further undertake to produce on demand the original Certificate / Permission / Documents / Permits for verification at any stage during bid evaluation process / contract period as well as at any time asked to produce.



6. I / We also understand that failure to produce the documents in "Prescribed Performa" (wherever applicable) as well as failure to give requisite information in the prescribed Performa may result in to rejection of our bid.
7. I / We confirm that I / We have meticulously filled in, checked and verified documents / certificates / permissions / permits / affidavits / information etc. enclosed in our bid from every aspect and same are enclosed in order (i.e. in chronology) in which they are supposed to be enclosed. Page numbers are given on each submitted document. Important information in each document is "highlighted" with help of "marker pen" as required.
8. The above certificates / documents are enclosed separately and not on the Performa printed from tender document.
9. I / We say and submit that Permanent Account Number (PAN) given by the Income Tax Department is \_\_\_\_\_, which is issued in name of \_\_\_\_\_.
10. I / We understand that giving wrong information on oath amounts to forgery and perjury and I/We am/are aware of the consequences thereof, In case any information provided by us are found to be false or incorrect, you have right to reject our bid / terminate contract at any stage including forfeiture of our EMD / SD / Cancel the award of contract. In this event, your office reserves right to take legal action on me/us.
11. I / We have physically signed & stamped all above documents along with copy of tender documents (page no. \_\_\_\_\_to \_\_\_\_\_).
12. I / We hereby confirm that all our quoted items meet or exceed requirements and are absolutely compliment with specifications mentioned in tender document.
13. My / Our Company has not filed any Writ Petition, Court matter and there is no court matter filed by State Government and its Board Corporation, is pending against our company.
14. I / We hereby commit that we have paid all outstanding amounts of dues / taxes / cess / charges / fees with interest and penalty.
15. In case of breach of any tender terms and conditions or deviation from tender specifications other than already specified as mentioned above, decision of your company / Committee for disqualification / termination will be accepted by us without any objection.

Whatever stated above is true and correct to the best of my knowledge and belief.

(Authorized Signatory)

Signature & Seal of bidder

Name:

Designation:

Place:

Date:



**ANNEXURE –XV Schedule of Deviation From Technical Specifications and Commercial Terms and Conditions:**

All the deviations from the general and special conditions of contract shall be filled by BIDDER clause by clause in this schedule.

| Sr. No | Section | Clause No | As per Tender Document | Deviation |
|--------|---------|-----------|------------------------|-----------|
|        |         |           |                        |           |
|        |         |           |                        |           |
|        |         |           |                        |           |
|        |         |           |                        |           |
|        |         |           |                        |           |
|        |         |           |                        |           |
|        |         |           |                        |           |
|        |         |           |                        |           |

The bidder here by certifies that the above mentioned are the only deviations from GIPCL’s terms and conditions of this tender document. The bidder further confirms that in the events any other data and information presented in the bidder’s proposal and accompanying documents are at variance with specific requirements laid out in the GIPCL’s terms and conditions, then the latter shall govern and will be binding on the bidder for quoted price.

Company Seal

Signature .....

Name .....

Designation .....

Company.....

Date.....