



Request for Proposal

For

“Maintenance, Support for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems” at GIPCL Mines (GILDMS)

GIPCL

(A) DISCLAIMER

The information contained in this Request for Proposal (RFP) document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of the GIPCL or any of their employees or advisors, is provided to Bidder(s) on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

The purpose of this RFP is to provide interested parties with information that may be useful to them in eliciting their financial offers (the "Proposal") pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the GIPCL in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for GIPCL, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in this RFP, may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP and obtain independent advice from GIPCL.

Information provided in this document to the Bidder(s) is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. GIPCL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

GIPCL, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way in this Bid Stage.

(B) LIST OF ABBREVIATIONS

Abbreviation	Detail
AMC	Annual Maintenance Contract
GPS	Global Positioning System
GPRS	General Packet Radio Services
GIPCL	Gujarat Industries Power Company Limited
GILDMS	GIPCL Integrated Lignite/lime Dispatch Management System
URS	User Requirement Specifications
SLPP	Surat Lignite/lime Power Plant
SAP	SAP ERP ECC 6 System
IP Camera	Internet Protocol based Camera
CCTV	Closed Circuit Television
RFID	Radio Frequency Identification
MIS	Management Information System

(C) IMPORTANT INFORMATION

Tender Document Cost	Rs. 5,000 (Five Thousand Lacs rupee Only) in the form of Demand Draft or bank Guarantee in favour of The Gujarat Industries Power Company Limited Payable at Baroda from any nationalized bank or from IDBI/ICICI/Axis/Kalupur Commercial Bank/HDFC banks.
EMD	Rs. 2, 00,000 (Two Lacs rupee Only) in the form of Demand Draft or bank Guarantee in favour of The Gujarat Industries Power Company Limited Payable at Baroda from any nationalized bank or from IDBI/ICICI/Axis/Kalupur Commercial Bank/HDFC banks .
Availability Of Online Tender Document	Website www.nprocure.com from 17/04/2018 onwards
Correspondence Address	Addl. General Manager (M & C) Gujarat Industries Power Company Limited P.O. – Petrochemicals Baroda- 391346 Gujarat
Last Date for submission of Bid	Date : 27/04/2018 Time: 5:00PM on above address

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Section I: Request for Proposal

1. INTRODUCTION

GIPCL was incorporated in 1985 as Public Limited Company under the auspices of Government of Gujarat. The company is engaged in business of Electrical Power Generation. The total present capacity of GIPCL Company is 929.4 MW. The company has a vision to transform itself into a national level power sector enterprise. The company is having its registered office at P.O. Petrochemical, Vadodara, Gujarat.

It commissioned its first power project; a 145 MW gas based Combined Cycle Power Plant in February, 1992 at Vadodara. Power from this plant is distributed to its promoters in proportion to their original equity holding.

The company expanded its capacity and commissioned 165 MW Naphtha & Gas based Combined Cycle Power Plant at Vadodara in November, 1997 as Independent Power Producer (IPP) with Power Purchase Agreement (PPA) with GUVNL.

It commissioned 250 MW Lignite based Power Plant at Nani Naroli, District Surat in November, 1999 as Independent Power Producer (IPP) with Power Purchase Agreement (PPA) with GUVNL. It also has its own Captive Lignite Mines at Vastan for Surat Lignite Power Plant.

2 x 125 MW SLPP Phase II has been commissioned in April 2010. Government of Gujarat has consented to allot 500 MW Expansion Phase-3 also to Gujarat Industries Power Company Limited and the Site Selection, Environmental Clearance, and Engineering Activities by consultants for the same are in progress.

It Commissioned a 5 MW photovoltaic Solar Power Station at Vastan Mines of Surat Lignite Power Station in January 2012.

The company has set up 112.4 MW capacities of Wind Power Projects as on 31.03.2017 in the State of Gujarat at different sites

GIPCL is an ISO 9001, ISO 14001, and OHSAS 18001 certified Company and has also obtained ISO 50001 certification for its plants at Vadodara and SLPP. The Company is running its core business/operations activities on the platform of SAP and other IT Based Systems.

GIPCL has their own three captive lignite mines namely Vastan, Mangarol, Valia and one limestone mine for SLPP Operations and future expansion. The mine operations are out-sourced. The Successful Bidders delivers lignite fuel/lime stone up to our unloading points in dumpers and from there on it is used by the power plants

Section II:

Tender

Details

1. OBJECTIVE

The objective of this RFP is to appoint a System Integrator (SI) or Solution Provider (SP) to maintain and support the system, its integration with SAP ERP and other IT based systems and hardware implemented in RFID based application for automate lignite/lime dispatch management to improve productivity, safety and business process visibility. GIPCL has also installed CCTV/IP Camera based surveillance system in mines to prevent unauthorized movement of trucks, machinery & men inside the mine area.

2. TENDER DETAILS

GIPCL invites tender offers (Technical and Commercial) from reputed, experienced, technically and financially sound Company for providing "Maintenance, Support and Rate Contract for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems" at GIPCL Mines (GILDMS)"

Please note that this bid document is not for actual award of contract but to call for the technical bid and the rates as per financial bid for providing "Maintenance, Support and Rate Contract for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems" at GIPCL Mines (GILDMS)"

Actual award of contract will follow the conditions as per this document. This document is given for enabling the bidders to know the existing operational scenario, technology implemented and processes in GIPCL for lignite/lime transportation so as to guide them in filing up the technical and financial bid for providing "Maintenance, Support and Rate Contract for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems" at GIPCL Mines (GILDMS)"

3. ELIGIBILITY CRITERIA FOR BIDDER

1. The bidder should have a total annual average turnover of **Rs. 10 Crore (Minimum)** in the last three financial years ending 31st March of the previous financial year certified by your statutory auditors.
2. The copies of Audited Annual Accounts for **last three years** shall be attached along with the bid. If any bidder does not furnish the turnover value for any financial year out of the last 3 financial years, the turnover for that financial year shall be taken as 'Zero' and the average annual financial turnover shall be calculated accordingly.
3. The bidder must have **one office in Gujarat**. Please attach the copy of any two of the following: Property tax bill/Electricity Bill/Telephone Bill/GST Registration/Lease agreement

4. Bidder should have developed and have experience in implementing project involving UHF based RFID integrated solution for vehicle tracking in India or outside India with at least one single order worth Rs. 50 lacs or more. Bidder should provide PO/Completion Certificate for each such executed project.
5. The bidder should have experience at least **three projects** of AMC for UHF RFID based Mineral/Material Dispatch Management System with at least one single order worth Rs. 1 crore or more. Customer references & Purchase orders must be attached along with the bid
6. Bidder should also bring all the original certificates, if required, for verification as well as be prepared to clarify the queries, if any, at the time of technical scrutiny as intimated to them.
7. Bidder should have experience of implementing projects in Mining sector in India with order value of at least Rs. 1.00 Crore for single client. Bidder should provide PO/Completion Certificate for each such executed project.
8. Bidder should have experience of SAP Integration with third party applications in India. The bidder should have implemented at least two such projects. Bidder should provide PO/Completion Certificate for each such executed project.
9. The Bidder should be a System Integrator (SI) having CMM level - 3 certification and ISO 9001:2008
10. Bidder should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by Government of Gujarat or any of the PSU in the state of Gujarat. Certificate / affidavit mentioning that the Bidder is not blacklisted by Government of Gujarat or any of the PSUs in the state of Gujarat due to engagement in any corrupt and fraudulent practices. Self-Declaration Form must be submitted.
11. The bidder must have a valid GST Registration in India. Proof of a valid GST Registration in India.

Note:

Bidders who wish to participate in this bid will have to register on www.nprocure.com. Further bidders who wish to participate in online bids will have to procure Digital Certificate as per Information Technology Act 2000 using which they can sign their electronic bids. Bidders can procure the same from (n) code solutions – a division of GNFC Ltd., or any other agency licensed by Controller of Certifying Authority, Govt. of India. Bidders who already have a valid Digital Certificate need not procure a new Digital Certificate.

4. PROPOSAL PREPARATION

Bidder is expected to examine all instructions, forms, terms and requirements in the RFP document and prepare the proposal accordingly. Failure to furnish all information required by the RFP document or submission of a proposal not substantially responsive to the RFP

document in every respect may result in the rejection of proposal.

The proposals should be submitted (2 Two) parts as mentioned in the following section A, B and C. The Documents related to Section A & B & C are to be submitted in hard copies only on or before 17:00 hrs. On 27/04/2018.

A. Pre-Qualification Proposal (Physical Copy through courier)

- a. A copy of RFP duly stamped and signed on each page by the authorized signatory.
- b. Covering letter on the bidder's letter-head (Annexure 1)
 - a. Certifying that the period of validity of bid is 180 days from the last date of submission of proposal, and
 - b. Asserting that the bidder is quoting for all the items (including services) mentioned in the tender.
- c. EMD in the form of a Demand Draft or Bank Guarantee issued by a Scheduled Commercialized / Nationalized Bank IDBI/ ICICI/HDFC/AXIS/Kalupur Commercial bank , in favor of The Gujarat Industries Power Company Ltd payable at Baroda.
- d. A registered Power-of-Attorney granting the person signing the proposal the right to bind the bidder and company's registered address including person's name/designation, email, phone, fax and mobile number for official correspondence.
- e. Submission of all the required documents mentioned in Eligibility criteria in RFP
- f. Undertaking by bidder stating that they have read and understood the entire tender document and agree with all the terms and conditions stated in the RFP.

B. Technical Proposal (Physical Copy through courier)

- a. Proposal particulars
- b. Support Methodology & Preventive Maintenance schedule and check list
- c. Qualification of the staff proposed for the support manpower
- d. CVs of Key persons who are going to be deputed at GIPCL for support period
- e. Deviation if any / Any other document as required in the RFP
- f. Service Level Mechanism and Escalation matrix
- g. Technical Compliance Sheet Annexure -3

C. Commercial Proposal (Online on n Procure system only)

- a. Commercial Bid Details and Priced Bill of Material (Annexure -5)

All documentation is required to be in English.

5. BID SECURITY (EMD), SECURITY DEPOSIT

- a. The bidder shall furnish a bid security (EMD) of **Rs. 2, 00,000/- (Rs. Two Lakh only).**
- b. The Bid Security (EMD) shall be in Indian Rupees (INR) and shall be in form of Demand Draft or Bank guarantee issued by a Nationalized Bank in India or IDBI/ICICI/HDFC/AXIS/Kalapur Commercial bank, in favour of **THE GUJRAT INDUSTRIES POWER COMPANY LIMITED payable at Baroda** or Bank Guarantee issued by a Nationalized Bank in India or IDBI/ICICI/HDFC/AXIS/Kalapur Commercial bank.
- c. The EMD shall be valid for at least 180 (one hundred and eighty) days from the date of submission of proposal. No interest shall be payable on Bid Security.
- d. Unsuccessful Bidder's Bid security shall be discharged or returned within 60 (sixty) days of expiration of the period of proposal validity prescribed by the Tenderer or after awarding tender to successful Bidder, whichever is earlier.
- e. The successful Bidder's EMD shall be discharged upon the signing of agreement by the Bidder.
- f. The Bid security will be forfeited at the discretion of Tenderer on account of one or more of the following reasons-
 - i. The Bidder withdraws its Proposal during the period of proposal validity
 - ii. Bidder does not respond to requests for clarification of its proposal
 - iii. Bidder fails to co-operate in the Proposal evaluation process
 - iv. In case of a successful Bidder, the said Bidder fails-
 - to sign the Agreement in time
- g. The bidder have to submit the requisite security deposit **@10% of the total value of contract** in the form of Bank Guarantee within 10 days from the date of LOI (As per Annexure – 7) and shall be valid for a period of 60 days beyond the date of completion of all contractual obligations of supplier. After the completion of all contractual obligations, security deposit should be returned to the concerned supplier within 60 days.
- h. The Performance Bank Guarantee (10% of the total AMC value) for the Bid shall be furnished from any Nationalized Bank by the successful Bidder. The Bank guarantee shall be valid for warranty period of one year from go-live of the system. However in case of expiry of Performance Bank Guarantee before the "Contract Period", the same should be extended or renewed till the completion of said period by the Bidder at least one month before expiry of the validity, failing which GIPCL will be at liberty to en-cash the

Performance Bank Guarantee without intimation or entering into further correspondence, formalities etc; in the matter. The bank guarantee to be submitted should from any nationalized schedule bank or IDBI/ICICI/HDFC/AXIS/Kalupur Commercial bank (Format Annexure 8).

6. PROPOSAL SUBMISSION

- a. The proposals submitted should have all pages numbered. It should also have an index giving page wise information of documents. Proposal that are incomplete or not in prescribed format will be summarily rejected.
- b. The Bidder shall submit two hard copies and one soft copy of in CD (in Microsoft Word format) of pre-qualification and technical proposals as described below-
 - **Pre-qualification Proposal** - Hard copies separately, clearly marking “Pre-qualification Proposal – ORIGINAL”, “Pre-qualification Proposal – COPY” and soft copy on CD clearly marking “Pre-qualification Proposal (Soft Copy) - Tender No: **GIPCL/GILDMS/2018 dated 17 April 18.**
 - **Technical Proposal** - hard copies separately, clearly marking “Technical Proposal – ORIGINAL”, “Technical Proposal – COPY” and soft copy on CD clearly marking “Technical Proposal (Soft Copy) **Tender No: GIPCL/GILDMS/2018 dated: 17.04.2018.**
- c. In case of any discrepancy between the soft copy and hard copy, the details in hard copy shall prevail. In case of any discrepancy between “ORIGINAL” and “COPY” of the proposals, the details in “ORIGINAL” shall prevail.
- d. In case of discrepancy between amount given in words and figures, the details given in words shall prevail.
- e. Prices should not be indicated in the Pre-Qualification and Technical Proposals.
- f. All the columns of the quotation form shall be duly, properly and exhaustively filled in. The rates and units shall not be overwritten. Rates shall always be both in the figures and words.
- g. The proposals have to be submitted in four parts, viz.-
 - o Envelope – 1: Containing EMD, Demand Draft for Tender Fees or proof of Tender fees, power of attorney and one signed copy of RFP and two hard copies and one soft copy of Pre-Qualification Proposal, super scribed as “Pre-Qualification Proposal - Tender No: **: GIPCL/GILDMS/2018 dated 17 April 18.**
 - o Envelope – 2: Containing two hard copies and one soft copy of detailed

Technical Proposal super scribed as “Technical Proposal - Tender No: **GIPCL/GILDMS/2018 dated 17 April 18.**”

- o Envelope – 3: Both of the above sealed envelopes should again be placed in a single sealed envelope, super scribed as “GILDMS Support for GIPCL Mines, SLPP” Tender No: : **GIPCL/GILDMS/2018 dated 17 April 18.**
- o The commercial proposal (as per Annexure - 5) has to be submitted strictly online on www.nprocure.com. Any physical bid submitted of commercial proposal will result into disqualification of the bidder.

The Bidder or Company is allowed to submit only one proposal against this RFP. The bidder has to submit the complete proposal not in part or for particular quantum of work, such proposal will automatically be disqualified without any intimation to bidder. References to previous or on-going Proposals will be not considered.

7. PROPOSAL PRICES

- The Commercial Bid as prescribed in Annexure - 5 should be submitted as per the format provided in RFP only
- The prices quoted by the bidder shall be in sufficient detail to enable the Tenderer to arrive at the price of equipment/system offered.
- The prices quoted shall in Indian Rupee (INR).
- The tenders not submitted as specified above will be summarily rejected.
- If any or all of the information asked in the RFP are not available in the Commercial Proposal the bid is liable for rejection.

8. DISCOUNTS, LEVIES, FREIGHT, ETC.

The Bidders are informed that discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, will not be taken into account for evaluation purposes.

The Bidders should also take into account all levies, freight, insurance etc. The price quoted should be inclusive of GST (all levies, freight, insurance etc.). Freight, levies, etc. of any type, indicated separately, will not be taken into account for evaluation purposes.

9. PROPOSAL VALIDITY

The proposals shall remain valid for a period of 180 days from the last date of submission of tender. If required, the Tenderer may ask the bidders to extend the proposal validity in writing.

Proposals of the bidders who do not agree to extend the validity of proposal will be rejected

and EMD will be forfeited. A bidder granting the request for extension of proposal validity will not be allowed to modify its proposal or put any condition for extending the proposal validity.

10. LANGUAGE

All Proposals, correspondence and documents related to proposals, shall be written in the English language. Supporting documents and printed literature furnished by the Bidder may be in another language, provided they are accompanied by an accurate translation of the relevant passages in English language.

11. LATE PROPOSALS

The bidder will not be able to submit the proposals after final submission date and time is over. The physical document of proposal, as described in RFP, received by the Tenderer after final submission date and time of proposal prescribed in the RFP document may not be considered and the entire proposal may be rejected. The EMD of such proposals will be returned to the Bidder.

12. MODIFICATION & WITHDRAWAL OF PROPOSALS

The Bidder is not allowed to modify its proposal subsequent to the final submission of proposals. The Bidders cannot withdraw the proposal during the period between the last date for receipt of proposals and the expiry of proposal validity period specified in the RFP. A withdrawal of proposal during proposal validity period may result in the forfeiture of its EMD from the Bidder.

13. RIGHT TO ACCEPT PROPOSAL

The Tenderer reserves the right to accept or reject any or all Proposals at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds of such decision.

14. PROPOSAL FORMS

Wherever a specific form is prescribed in the RFP document, the Bidder shall use the form to provide relevant information. If the form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information.

For all other cases, the Bidder shall design a form to hold the required information. The Tenderer may not be bound by any printed conditions or provisions in the Proposal Forms designed by the bidder.

15. LOCAL CONDITIONS

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 contract and /or the cost.

The Bidder is expected to know all conditions and factors, which may have any effect on the execution of the contract after issue of Letter of Award as described in the bidding documents. The Tenderer 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 contract awarded under the bidding documents will be entertained by the Tenderer. Neither any change in the time schedule of the contract nor any financial adjustments arising thereof shall be permitted by the Tenderer on account of failure of the Bidder to know the local laws / conditions.

The 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.

16. CONTACTING THE TENDERER

Any effort by a Bidder influencing the Tenderer's bid evaluation, bid comparison or contract award decisions may result in rejection of proposal.

Bidder shall not approach GIPCL's officers or any concerned official after office hours and/ or outside GIPCL's office premises, from the time of proposal opening till the time of award of Contract.

17. OPENING OF BIDS

The Evaluation Committee or its authorized representative will open the tenders. Sequence of opening shall be as follows-

- a) Pre-Qualification Proposal
- b) Technical Proposal
- c) Commercial Proposal

First, the envelope containing Pre-qualification Proposal will be opened and evaluated followed by the technical proposal. The Proposals will be evaluated for being substantially responsive. The proposals will be treated as "not substantially responsive" in case of following events-

- a) Envelopes / documents not submitted as prescribed and in time
- b) Proposal is not signed, sealed or page numbered as stipulated
- c) No or Improper Bid Security (EMD)
- d) Is not accompanied by Power of Attorney
- e) Does not contain all the information as required and prescribed in RFP
- f) Does not meet the qualifying criterion

- g) Any other irregularity that disqualifies the bid

In all such cases, the proposals may be treated as not responsive and even the technical proposals may not be evaluated. The technical proposals of the only substantially responsive proposals will be evaluated. Following the evaluation of proposals for being “substantially responsive” the technical evaluation of the proposal will be carried out. During the technical evaluation the responses provided in pre-qualification proposal and technical proposal will be evaluated. The bidder should qualify during technical evaluation by meeting our minimum technical requirements and should have furnished all the documents in the prescribed manner.

Once the technical evaluation is complete the commercial proposals of technically qualified bidders would be opened.

18. PROPOSAL EVALUATION

After the closing time of submission, GIPCL committee will verify the submission of Bid Processing Fees & EMD as per bid terms and conditions.

A total scoring for each bid will be obtained by adding the multiplication of Technical Score and Financial scores with its weightings stated in the bidding document.

$$\text{Total Score} = \text{Financial Score} * 30 \% + \text{Technical Score} * 70\%$$

The bids will ranked according to total score, with the highest total score being ranked number 1 and the bidder will be declared as L1.

The Proposals will be evaluated in following stages:

- 1 Evaluation of Technical Bid
- 2 Evaluation of Commercial Bid

The Tenderer may conduct clarification meetings with each or any bidder to discuss any matters, technical or otherwise. Further, the scope of the evaluation committee also covers taking of any decision with regard to the RFP, execution/ implementation of the project including management period. Proposals shall be evaluated as per the following steps.

18.1 EVALUATION OF TECHNICAL PROPOSAL

Technical Evaluation will be 1st step for the evaluation process. The technical proposal will be evaluated out of 100 marks. The bidder will have to score at least 70 marks. Bidder whose Technical Score ≥ 70 marks will be declared as technically qualified bidder and only those bidder will be eligible for Financial Evaluation process

S No	Technical Competence	Marks	Max Marks
1	Experience of Implementing UHF RFID based Integrated projects value of Rs. 10 Lack minimum		15
	- 1 to 15 Projects	5 Marks	
	- More than 15 Projects	10 Marks	
	Mining Sector credentials (0.5 marks each up to 5 marks maximum) showcasing relevant order for Mining company.	5 Marks	
2	Experience of providing AMC for UHF RFID based Integrated Projects		15
	- 3 to 10 Projects	5 Marks	
	- More than 10 Projects	10 Marks	
3	Experience of Implementing RFID based projects integrated with SAP System		15
	- 1 to 3 Work Orders	5 Marks	
	- 3 to 5 Work Orders	10 Marks	
	- More than 5 Work Orders	15 Marks	
4	Experience of Providing Onsite Manpower for Project Support		20
	- Support Manpower of 30 Nos in single project.	10 Marks	
	- UHF RFID Technology Specific Experienced Manpower for minimum 4 Projects	10 Marks	
5	Experience of integration with external peripherals like boom barriers/ camera/ traffic light/ with UHF RFID system		10
	- 1 to 3 Projects	3 Marks	
	- 3 to 5 projects	5 Marks	
	- More than 5 Projects	10 Marks	
6	Presentation of Understanding of Existing GILDMS operation, process and project executed		10
7	Demonstration of similar system implemented for Mining company in India		15

- Bidder has to obtain minimum 70 Marks out of 100 Marks to get qualify in Technical Evaluation. Only qualified bidder will be eligible for Financial Evaluation.
- Bidder is required to submit documentary proof of Purchase Order / Agreement / Completion Certificates, detailing Scope of Work, or supporting documents clearly stating the required details, wherever is required

Technical marks will be calculated against each Criteria and would be totaled up. Any proposal achieving a Total Technical Score less than 70 (Seventy) Marks will be treated as “Not Technically Qualifying the Requirements” and will not be considered further. The commercial bids of the “Technically Qualified Bidder” shall only be opened.

Technical Score of each of the qualified bidder shall be calculated based on the total technical marks of each bidder.

Technical Score ÷ Highest Technical Score * 100 = Technical Score.

A detailed evaluation of the proposals shall be carried out in order to determine whether

the bidders are competent enough and whether the bidder's proposal technically qualifies to the requirements set forth in the RFP. The bidder qualifying in our minimum technical requirements will qualify technically and become qualified for next stage. However, GIPCL reserves the right to take the decisions of whose commercial bids are to be opened.

18.2 EVALUATION OF COMMERCIAL PROPOSAL

The commercial proposals will be opened only for the bidders with score of 70 (Seventy) marks and above on the technical parameter defined above. A score of 100 should be awarded to the lowest priced bid. Other proposals are given a financial score inversely proportional to the lowest cost proposal, using the following calculation:

$$\text{Lowest Bid Price} \div \text{Bid Price} * 100 = \text{Financial Score.}$$

19. TERMS AND CONDITION

The Tenderer reserves the right to ask for a technical elaboration/clarification in any form from the Bidder on the already submitted Technical Proposal at any point of time before opening of the Commercial Proposal. The Bidder shall furnish the required information to the Tenderer and its appointed representative on the date asked for, at no cost to the Tenderer. The Tenderer or its representative or a party authorized on its behalf may at its discretion, visit the office / project site / installation etc., of the Bidder for Services, any time before the issue of Letter of Award.

The Bidder may quote only one option (i.e. only one product can be quoted) against each item. Bidders are required to mention make & Model of the product

The Bidder/System Integrator will be required to co-ordinate with GIPCL IT dept to achieve the end-to-end 100% connectivity to run the hardware

20. Service Level Agreement (SLA) for GILDMS Hardware and Software

- The successful bidder will adhere to the following Service Level Agreements (SLA) during entire contract period.
- Support request (either ticket or CR) will be reported to successfully bidder via call/e-mail/Helpdesk system by GIPCL indicating urgency level.
- Delay attributable to GIPCL like delay in providing input / testing feedback / decision will not be counted while arriving at resolution time of any ticket.

Severity Levels	Severity Type	Description	Resolution Duration/Penalty for non-compliance
1	Critical	Any problem pertaining to GILDMS software and hardware that prevents users from making operational use of the GILDMS software and hardware system. Unable to process transaction through GILDMS system and system totally out of order and not accessible to user. None of the user are able to work	Resolve within immediate < 6 Hours. Errors are not resolved within the stipulated time as above, there shall be a penalty of INR 500 per hour for period exceeding above said 6 hours resolution time. In case the error is not resolved within 6 hours from the time of reporting of the error, Bidder shall be liable to pay a penalty of INR 1000 per hour for the delayed period after 6 hours.
2	Major	Any problem that has a significant impact on GILDMS's use of any critical functions of software and hardware.	Resolve within 12 hours. Errors are not resolved within the stipulated time as above, There shall be a penalty INR 500 per hour for period exceeding above said 12 hours resolution time. In case the error is not resolved within 1 day from the time of reporting of the error, Bidder shall be liable to pay a penalty of INR 1000 per hour for the delayed period after 1 day.

3	Minor	Non-critical errors : Such class of errors will include problems, which result in minimal impact to the use and live operation of GILDMS software and hardware system. errors which are not key to the hamper business operations	<p>Within 3 days.</p> <p>Errors are not resolved within the stipulated time as above, there shall be a penalty of INR 500 per day for period exceeding above said 3 days resolution time.</p> <p>In case the error is not resolved within 5 days from the time of reporting of the error, Bidder shall be liable to pay a penalty of INR 1000 per day for the delayed period after 5 days.</p>
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Note-

In case of emergency the successful bidder depute required person onsite at their own cost.

20.1 NEW CHANGE REQUEST

- For changes pertaining to completely new processes, or any new developments etc., the total efforts (man days) required for the change requests will be mutually agreed by both the successful bidder and GIPCL. meanwhile GIPCL will obtain a management approval for the financial implication to carry out the changes in the system based on quoted rate in the commercial bid by the successful bidder.

21. AWARD OF CONTRACT

The Tenderer reserves the right to ask for a technical elaboration/clarification in any form from the Bidder on the already submitted Technical Proposal at any point of time before opening of the Commercial Proposal. The Bidder shall furnish the required information to the Tenderer and its appointed representative on the date asked for, at no cost to the Tenderer. The Tenderer or its representative or a party authorized on its behalf may at its discretion, visit the office / project site / installation etc., of the Bidder for Services, any time before the issue of Letter of Award.

22. CONFIDENTIALITY

As used herein, the term “Confidential Information” means any information, including information created by or for the other party, whether written or oral, which relates to internal controls, computer or data processing programs, algorithms, electronic data processing applications, routines, subroutines, techniques or systems, or information concerning the business or financial affairs and methods of operation or proposed methods of operation, accounts, transactions, proposed transactions or security procedures of either party or any of its affiliates, or any client of either party, except such information which is in the public domain at the time of its disclosure or thereafter enters the public domain other

than as a result of a breach of duty on the part of the party receiving such information. It is the express intent of the parties that all the business process and methods used by the Bidder in rendering the services hereunder are the Confidential Information of the Bidder.

The Bidder shall keep confidential any information related to this tender with the same degree of care as it would treat its own confidential information. The Bidders shall note that the confidential information will be used only for the purposes of this tender and shall not be disclosed to any third party for any reason whatsoever.

At all times during the performance of the Services, the Bidder shall abide by all applicable security rules, act, policies, standards, guidelines and procedures exist in **GIPCL**. The Bidder should note that before any of its employee or assignee is given access to the Confidential Information, each such employee and assignees shall agree to be bound by the term of this tender and such rules, policies, standards, guidelines and procedures by its employees or agents.

Note: The successful bidder is required to keep the data confidential and should not share the data to any other organization or individual or any third party or the employees of the organization.

It is very important that none of the bidders or organizations or any person belonging directly or indirectly to the organization shall share entire or any or part of the data to any other state or country or any advertising agency or any such third party which can result to the misuse of the same. The data protection act as per the policy of Government shall be considerable for the data being provided to the successful bidder for any purpose.

Any organization failing to abide the above mentioned point or breaches the data protection or confidentiality of the data, shall be liable for legal actions.

No case shall be filed on the terms and conditions of the RFP Document. No case shall be filed on the rights and prerogatives reserved by GIPCL.

Any dispute or difference under or arising out of or in respect of the RFP/Agreement/Accepted Contract may be referred to the sole Arbitrator, a person appointed by the Managing Director, GIPCL, P.O-Petrochemicals, Vadodara-391346 and her decision in the matter will be final and binding on the Bidder and the Company. The arbitration shall be carried out as per Arbitration Act, 1996 and Rules made there under as amended from time to time at HO GIPCL Vadodara.

The language of the arbitration proceedings and that of all documents and communications between the parties shall be in English.

Note: The Court of Baroda will have the jurisdiction to address any unsettled dispute.

(Note: Submission or cancellation of contract at risk and cost of the Bidder if awarded)

23. TERMINATION OF RFP

GIPCL also reserves right to Terminate/Cancel RFP at any time or stage of Bid without giving

any reasons. In such case of termination, the EMD shall be returned to the bidder.

24. INSURANCE

General

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

The 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 the 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 the 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 the Bidder alone. The Bidder's failure in this regard shall not relieve of any of his responsibilities and obligations under this contract.

The Bidder shall provide the GIPCL/Consultant with a copy of all insurance policies and document taken out by him in pursuance of the contract. The Bidder shall also inform the GIPCL/Consultant at least sixty days in advance regarding expiry or changes in such documents.

Employees State Insurance Act

The 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. The 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 Bidder or sub-Bidder 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 this Bidder whether brought by employees of the Bidder, by third parties or central or state Government authority or any political sub-division thereof.

The Bidder agrees to fill in with the employee state insurance corporation, the declaration forms, and all forms which may required in respect of the Bidder or Sub-Bidder's employee, who are employed in the work provided for or those covered by ESI from time to time under agreement. The Bidder shall deduct and secure the agreement of the sub Bidder to deduct the employees' contribution as per first schedule of the ESI act.

Workmen's Compensation and Employer's Liability Insurance

Insurance shall be affected for all the Bidder's employees engaged in the performance of this contract. If any of work is sublet, the Bidder shall require the sub-Bidder to provide workmen's compensation and employer's liability insurance for the latter's employees if such employees are not covered under the Bidder's insurance.

Any other insurance:

The 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 the GIPCL.

Accident or injury to workmen

The 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 in the employment of the Bidder or any sub-Bidder.

Section III:

Tender

Requirements

1. TENDER BRIEF

GIPCL Mines Operations

GIPCL has their own three captive lignite/lime mines namely Vastan, Mangarol, Valia and one limestone mine for SLPP Operations and future expansion. The mine operations are outsourced. The Successful Bidder delivers lignite/lime fuel/lime stone up to our unloading points in dumpers and from there on it is used by the power plants.

GIPCL has implemented end to end RFID Based Lignite Dispatch Management System and CCTV based Surveillance system at SLPP and all three mines. (GILDMS)

The GILDMS has been developed and implemented keeping industry best practices in mind, and is enriched with inputs from GIPCL management, IT and Operation team. The system is already being used for live transactions since last 3 years. GILDMS is directly related to the production, as such reliability and uptime becomes highly critical. During the implementation and post that in the current operational stage of the system various issues cropped up, that has questioned efficiency of the system.

RFID based Lignite Dispatch Management System Integrated with ERP/SAP

GIPCL has implemented IT based integrated system to automate mainly lignite/lime dispatch and improve safety and security in mine area. GIPCL has configured, integrated a complete package of equipment such as computer hardware/software, SAP integration, network and telecommunication gear and other related peripherals and services etc. GIPCL has deputed on-site support manpower to maintain the system in respect of all hardware, software and related peripherals during the entire period of contract.

The objectives which have been achieved by implementing the integrated mining solution at GIPCL are as follows:

- Automated mining Equipment Entry/Exit identification and Verification
- UHF RFID Based Authenticated entry of Vehicle in mine area
- Restricted Exit of Vehicle out of Mines in case of Trip sheet/royalty pass not generated at weighing Points
- Lignite and vehicle up to unloading points is being tracked
- Real time integrated data transmission with SAP and E-royalty pass system
- Secure Encrypted Data Transmission to the central system, which makes all records safe and secure
- Alert generation in case of unauthorized movement occurs
- Scalable & fully automated system without minimum manual intervention
- Human error eliminated system

Request for Proposal for Maintenance, Support for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems

- Central control room for mining surveillance
- Reports for decision makers to analyze on field operation

GILDMS Functionalities as of date

- Commissioned end to end “RFID Based Solution includes Design, Supply, Installation and Commissioning with all Software, Hardware, Middleware and Database License with onsite support at SLPP and all three mines of GIPCL”
- The system covered Vastan, Valia and Mangarol Mines and SLPP Power Plant at surat.
- Total 13 Weigh Bridges has been covered
- More than 200 temper proof RFID tags has been applied on vehicles
- RFID tag applied vehicles has been registered in GILDMS system
- Configuration management of on Field Hardware including Configuration of GILDMS hardware, Integration of hardware device with GILDMS Software Application and Integration of GILDMS Software Application with SAP-PI module.
- System has been integrated with e – Royalty pass system which is used by GIPCL to pay the Royalty.
- Centralized web based application for Reporting and MIS purpose.
- 24x7 CCTV based surveillance for mining operations
- IT Infrastructure

Area:

GILDMS System consisting of following major Module Highlights

- **RFID Based Vehicle Identification & Authentication System**
 - System based vehicle access
 - RFID Reader with Antenna has been installed at 13 Weigh Bridges and Entry / Exit Gates and Strategic locations
 - 350 Temper Proof RFID Tags has been applied on vehicles.
 - RFID Software Application at Weigh Bridges , Loading & Unloading Points and strategic locations
 - RFID Application on Central Server.
- **CCTC/IPTV Based Surveillance System**
 - Surveillance system at 13 Weigh Bridges and Unloading / Strategic locations Points.
 - High Capacity Server for Image storage.
 - Integrated Controller for communicating between Surveillance camera and RFID System.
 - Centralize Camera System for monitoring all the sites.

Request for Proposal for Maintenance, Support for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems

➤ **IT Infrastructure**

- Application server, Database Server, Backup server and VMS Server with required Software and Server Licenses.
- PC and Peripherals/Network Equipment for the Server
- Last mile connectivity setup for the field equipment Communication.

➤ **Application System/ Integration Services**

- Integration with SAP-PI module for real time communication between GILDMS and SAP System.
- Integration with e – Royalty pass system which is used by GIPCL to pay the Royalty.
- Management Information Dashboard for various stake holders.

System in under operation since June 2014 and all hardware had been delivered and installed since March 2014.

Details of Implemented GILDMS Solution Modules

GIPCL has implemented UHF RFID Based Lignite Dispatch Management System which has been integrated with SAP/ERP system of SLPP and GIPCL. System has been integrated with E-Royalty pass system and CCTV cameras of various points like Entry, Loading Points, Exit and Unloading Points of Plant. GIPCL has also implemented all necessary infrastructure to implement RFID based Dispatch System as mentioned in architecture.

Request for Proposal for Maintenance, Support for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems

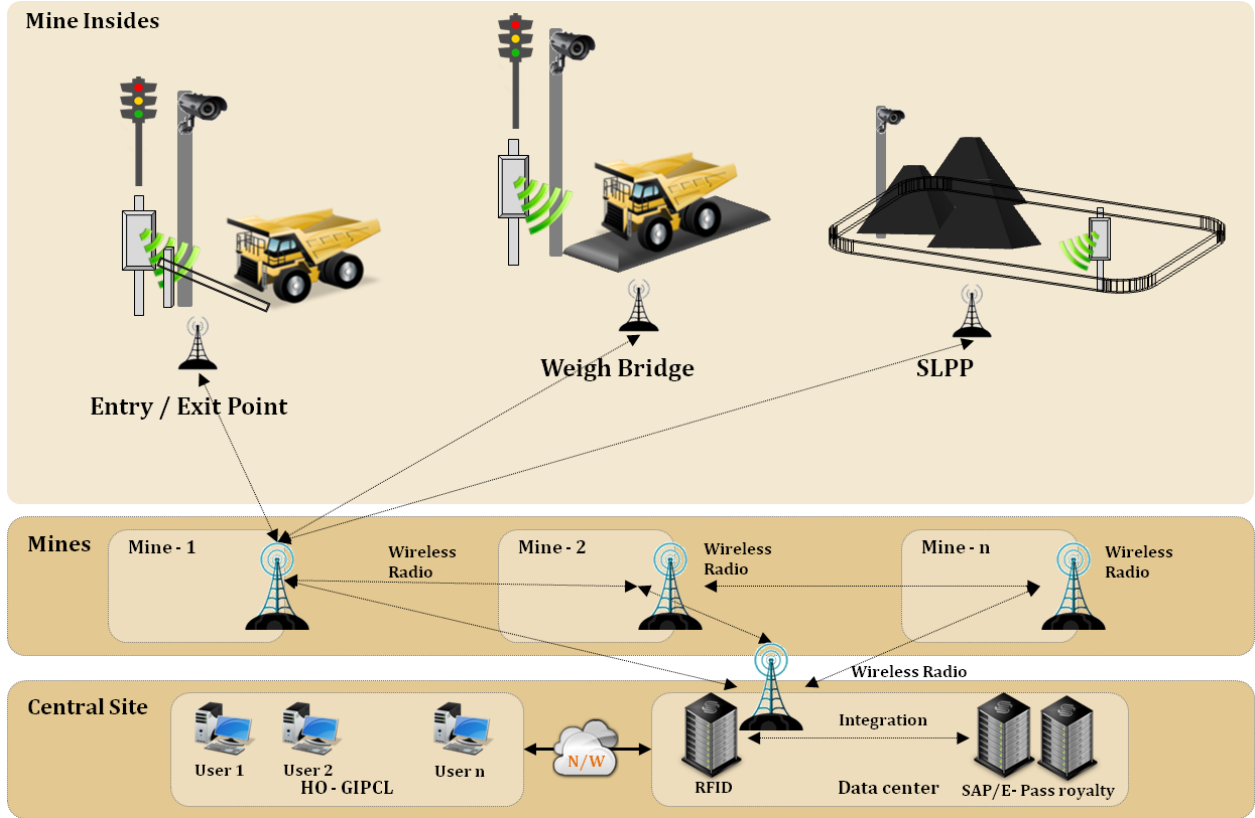
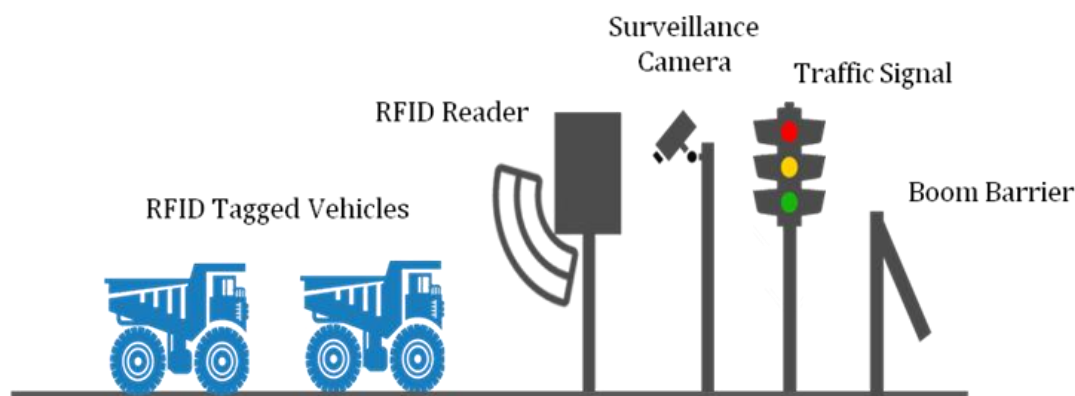


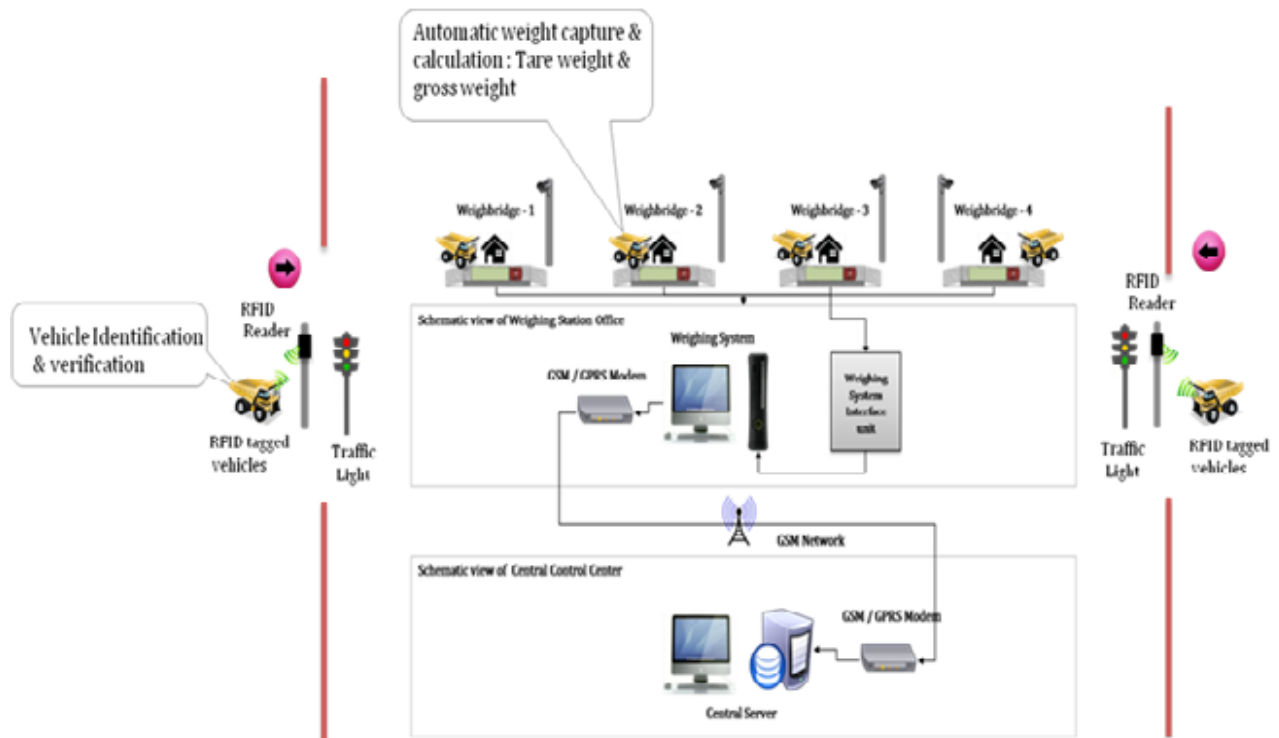
Figure 1: Proposed Solution Architecture

➤ **RFID Based Vehicle Identification & Authentication System**



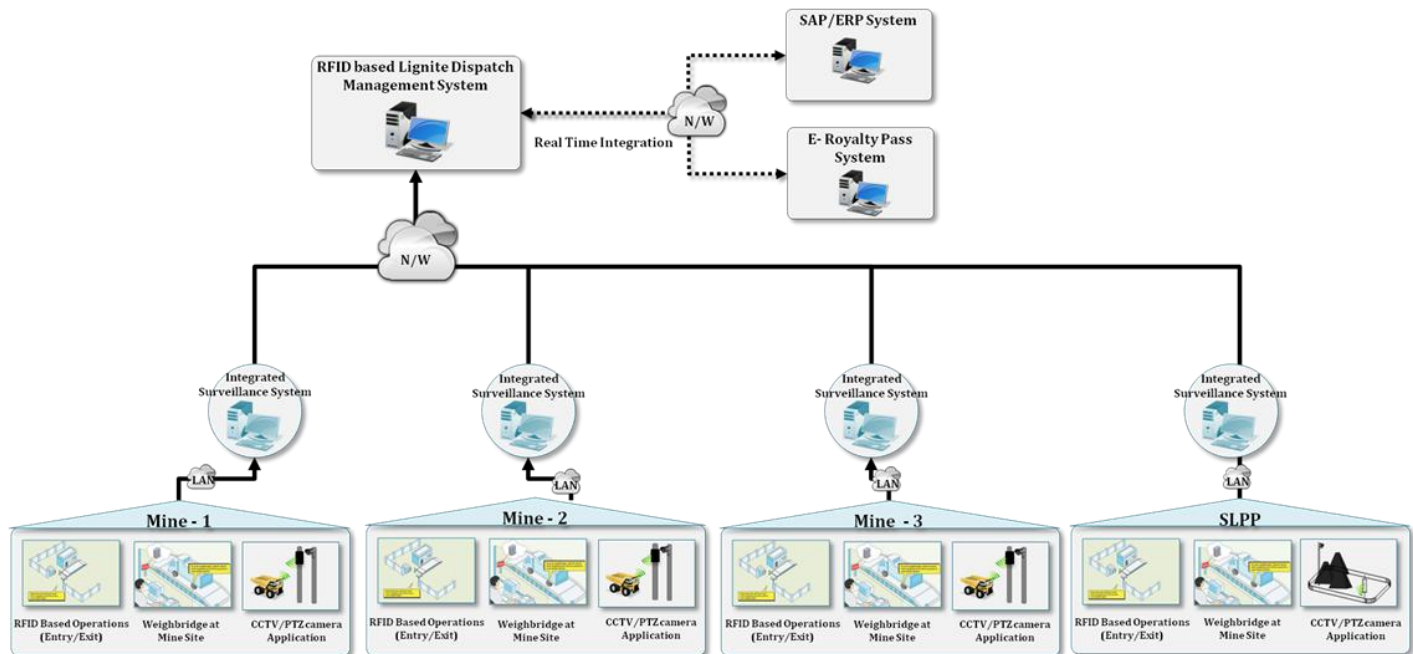
- RFID Tags has been Applied on Vehicles which held their Identity like ID Number, Truck Registration Number, Name of Bidder/ Consumer and other relevant Information
- Vehicle Tags reads by RFID Stationary Readers
- Stationary Readers has been installed on pre-identified/ significant locations to automatically track Vehicle presence within that area
- IP based CCTV cameras at Entry & Exit locations to monitor the registered vehicles' movement during the entry into the mines as well exit from the mine site
- The image of vehicle bucket and vehicle number captures with the CCTV surveillance
- Feeds of all the cameras stores in a Video Management Software/ Central Storage at the respective location.
- Boom barrier, CCTV camera and Traffic light integration with RFID system and it provides trigger to boom barrier and CCTV camera for authenticated equipment to enter and capturing image.
- Stored feeds can be view at the central control centre as and when required. Recording is available for required days based on storage capacity.
- In case of unauthorized entry of vehicle movement system generates alert message at security point.
- System generates entry exit report of each vehicle real time or at end of day.
- GIPCL has provided the list of authorized vehicle to be entered into the mine, only those vehicles should have permission to enter into the lease.
- At Entry gate Security Person have privilege to manually open the Entry gate in case of any GIPCL official vehicle wants to enter into the lease.
- In case of unauthorized vehicle try to enter into the mine boom barrier should not get open.
- Boom barrier has object sensor to prevent accident of the vehicle while closing.
- RFID System has been integrated with Boom barrier, CCTV camera and traffic signal for better control.
- RFID system is communicating with control center by implemented wired/wireless network

➤ **RFID Based Weighbridge solution & Vehicle Identification**



- Every vehicle is RFID tagged; each tag is carrying information of the Bidder Name, vehicle no., tare weight etc.
- A RFID reader located near Weigh Bridge reads this information as and when vehicle approaches the weigh bridge.
- CCTV cameras at weighbridge locations to identify whether vehicle is loaded or unloaded.
- The image of Vehicle bucket captures with the CCTV surveillance
- Traffic light flashes for valid/invalid trip and it is intergraded with RFID reader
- The customized desktop software application is installed at Weigh Bridge PC from where the Royalty / weighing slip is generated.
- It automatically displays the Tare, Gross and Net weight along with the vehicle information (distance travelled in km, buyer / destination / route information management, vehicle + driver + transporter information etc)
- All information are updated remotely to the Central Database Server real time
- The System is integrated with e-Royalty system to generate royalty pass.
- The data is passing to SAP system of GIPCL as well.
- On Desktop application indication comes once vehicle approaches the weighbridge.
- Application generates accumulated information and report generation
- RFID systems at each weigh bridge captures vehicle information automatically.
- The system is integrated with Electronic weighbridges for fetching weighing data.

➤ **CCTV Based Surveillance System at Mines &SLPP**



- IP based CCTV cameras at Entry & Exit locations of the Weigh Bridges for surveillance of vehicle movement in and out of the mine or the weighbridge
- The objective is to view the registered vehicles' movement during the entry into the mines as well exit from the mine site. The image and vehicle number captures with the CCTV surveillance.
- The feeds of all the cameras stores in a Network Video Recorder (NVR) at the respective location (SLPP office). The stored feeds can be viewed at the central control centre as and when required.
- The video feeds of the camera to the Base Station, which receives the video feed, decrypt the same and transmit to the Network Video Recorder (NVR).
- The CCTV security surveillance solution rapidly deployable remote video CCTV security solution, which is designed and developed to be totally transportable therefore allowing the robust CCTV system to be re-deployed and used on multiple sites to provide temporary intrusion detection and short term remote security monitoring solutions to protect and secure remote assets.

➤ **Integration with SAP/ERP system Infrastructure Provision (Server and Desktop)**

- GIPCL has provided all the required IT infrastructure as mentioned in RFP.
- All the Desktop machine and servers installed are carrying licensed operations system and database licenses.

Request for Proposal for Maintenance, Support for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems

- GIPCL has installed RFID software at each individual Weigh Bridge in all Mines which is integrated with Centralized RFID Application and database
- GIPCL is carrying all necessary software and Licenses for Application and Database servers.
- The maintenance of the IT infrastructure as well as relevant methodology of Backup, Archiving is performed by GIPCL

GILDMS Hardware and Software components

- **Hardware List**
 - GIPCL has installed and commissioned below list of hardware on different locations to perform the RFID based Lignite Dispatch Management System

Table- 1

Sr. No.	Hardware	Quantity
1	Automated Boom barrier with Plug in Radio Frequency card reader, Pair of flashing light	5
2	UHF Long Range Reader	53
3	IP based Controller for weighbridge	30
4	Tamper proof Asset/ Vehicle Tag	200
5	Enclosure with Power supply for reader	53
6	Traffic Light	32
7	Outdoor, IP66 rated, HDTV, day/night, fixed network camera	20
8	Outdoor-ready, IP66, IK10 UL and NMEA 4X classification, PTZ dome camera with 36x optical zooms	11
9	Video Management Software	1
10	Server for Storage for Video	1
11	Application Server for GILDMS	1
12	Database server for GILDMS	1
13	Backup server for GILDMS	1
14	Desktop with 46" LED for viewing surveillance	4
15	Dell Desktop PCs	14
16	Dell Work station	4
17	Smart Online UPS 3 KVA.	3
18	Smart Online UPS 1 KVA.	17

- **Centralized GILDMS Web Application**

- The web based software application has been developed and installed at application server having different below listed modules

Sr. No.	Module	Feature
1	Dashboard	<ul style="list-style-type: none"> • Live Dashboard • Statistical Dashboard • Network Dashboard • Production Dashboard
2	Masters	<ul style="list-style-type: none"> • Bidder Master • Device Master • Driver Master • Location Master • Mine Master • Mineral Master • Price Master • Transporter Master • User Master • User Management Master • Vehicle Master • Vehicle category Master • Vehicle Type Master • Port Setting Master • Journey Time Master
3	Reports	<ul style="list-style-type: none"> • Day wise vehicle movement Report • Manual Transaction Report • Mine Wise Trip Sheet Report • Service Admin Log Report • Violation • Warning • Mine wise Production Report • Duplicate Tag Generation • New Tag registration Report • Material Re-handling Report • Reader Detail Report • Trip wise report • Activity log Report • Lignite Received at Plant End • Lignite Re-handling Received at Plant End • Valia Mine Turn Around Time Report • Valia Tare-Gross Summary • Vehicle licene Validity Report • Day wise Vehicle Trip Summary Report
4	Configuration	<ul style="list-style-type: none"> • Vehicle Service Configuration • Vehicle Release/Interchange • Process Configuration
5	Violation	<ul style="list-style-type: none"> • Violation

- **Window based Weighbridge Application**

- The weighbridge application installed at each weighbridges for automatic vehicle identification and capture the vehicle weighment. Application is having features of live camera view, automatic image capturing, printing and peripheral hardware status.
- This software application is integrated with the central server and SAP modules
- Integrated with E-Royalty of state mining department (CGM's ILMS) system application
- Having three modules: Tare, Gross and Registration
 - Tare: Vehicle Tare weighment
 - Gross: Vehicle Gross weighment
 - Registration: Vehicle Registration
 - Duplicate Tag: For issue of duplicate tag
 - Vehicle Interchange: In case of interchange of vehicles

2. SCOPE OF WORK FOR THE BIDDER

2.1 GILDMS Hardware AMC Scope

- All the Hardware and software application pertaining to RFID based GILDMS shall be covered under comprehensive AMC (Hardware and software inventories list enclosed as an Table - 1).
- All the Hardware device configuration, firmware updation, re-booting and electronic component testing, problem troubleshooting and repairing shall be covered under AMC.
- Repair, maintenance, re-alignment/re-configuration and reinstallation of hardware devices which are pertaining to GILDMS such as CCTV Camera, RFID Reader, IP Controller, Boom Barriers and Server shall be covered in AMC.
- Preventive maintenance of all hardware devices including all parts and accessories (RFID Enclosure, CCTV Camera Enclosure and Power junction box etc.) shall be carried out in every quarter and submit the report to GIPCL IT with details of such abnormality detected during the preventive maintenance.
- Vendor shall be kept following critical hardware devices / parts of hardware as standby spare inventories at GIPCL site. All items are of same supplied model or equivalent / higher model and shall be compatible and working with installed GILDMS hardware and software. In case of any further hardware failure occurs beyond the spare inventories then SLA shall be followed for penalty.

Sr. No.	Item Description	Quantity in No.
1	RFID Reader	2
2	IP Controller	2
3	Loop Detector for Boom Barrier	1
4	Photo Sensor pair/set	1
5	Controller of Boom Barrier	1
6	3 KVA UPS	1

- All the hardware should be compliance as per device specification safety standard rating like IP54, IP66, and IP68 etc. during AMC tenure if any hardware fails due to non-compliance with safety standards then vendor shall be required to be replaced by their own cost.
- Any hardware device could not be repaired at site by support engineer and such hardware device required to be sent to AMC vendor office for further maintenance / repairing / replacement then vendor shall arranged for send faulty device by their own cost and risk.
- GILDMS hardware item wise AMC rate list shall be submitted, so that any hardware required to amend OR reduce shall be intimated by GIPCL to AMC vendor and the same will be considered in next quarter and AMC value shall be increase OR decrease proportionately.
- In case of any GILDMS hardware and software system down time measured beyond SLA period, then penalty shall be applied as per SLA.
- In case of any part of Servers which are belongs to GILDMS shall be down beyond SLA then penalty shall be applied as per SLA.
- Quarterly maintenance of GILDMS Servers, thoroughly check, upgrade server BIOS, firmware etc. and ensure the smooth working of the installed GILDMS software applications and submit the report accordingly.
- GILDMS Server down time as per GIPCL requirement will not considered for penalty calculation. In other case GILDMS Server down time shall be considered for penalty calculation.
- In case of any hardware issue could not resolved by support engineer then AMC Vendor shall be arranging for additional support engineer or senior engineer at GIPCL site to resolve hardware issue related to GILDMS without any additional cost as and when required.
- 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 the server's hardware health on daily basis with taking the help of GIPCL officials and shall submit the status report duly signed by support engineer and GIPCL officials to SLPP-IT In-charge.
- 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 of UPS down and no stand by UPS for replace faulty one, vendor shall be keep all the connected hardware in running by bypass UPS.

2.2 GILDMS Software Scope

- Following support services shall be included under GILDMS Software applications AMC support.
 - Resolve software bugs / issues which is related GILDMS Weighbridge application, server applications including Web and Entry-Exit Application system, sub systems developed / deployed existing functionality OR services.
 - No any man hours / days considered and 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.
 - Modification in the existing server application, client application and reports.
 - Milestone video recording software maintenance support.
- Functional support to the users shall be provided during the AMC tenure.
- Any new reports, functionalities, services or module development, software customization related GILDMS WB, Web and Entry-Exit Application system and sub systems shall be addressed through change request policy as per SLA. Software development considered under change request, then AMC vendor send software engineer at GIPCL site for understand the requirements, after gathered the actual requirements thereafter actual man days requirements shall be finalized jointly by GIPCL and AMC vendor.
- 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 get the confirmation from GIPCL then changes will be transferred in the GILDMS production server.
- 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 AMC vendor shall resolve issue without any additional cost.

- AMC vendor shall depute software engineer at our site for providing on-site support, meanwhile GIPCL shall not provide VPN or any type of remote session for support. However GIPCL shall not bear 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
- AMC vendor shall be submitting the detail activity reports to GIPCL as and when any activities have been carried out.
- Software engineer has to stay at our site for resolution of software critical issue related to GILDMS without any additional cost as and when required.
- Any changes related to the existing interfaces / systems will be carried out by the successful bidder without any additional cost to GIPCL.
- Software support follows configuration management (version management). Related documents should be maintained by successful bidder and submit to GIPCL.
- Provide the support for configuration of on field hardware including configuration of GILDMS Hardware, Integration of Hardware device with GILDMS Software Application and Integration of GILDMS Software Application with SAP-PI module.
- AMC vendor shall provide support for installation/re-installation of upgraded software application of GILDMS Weighbridge, server application along with Web and Entry-Exit application and database application.
- Any software issue resolution of reported bug / issue of GILDMS WB / Web Application shall be first tested in the development server, after successfully testing done with desire result and confirmation received from software engineer thereafter GIPCL will be perform the functional test in the development server and inform to AMC vendor with test result data for to deploy the changes in the live production server. Again final result of deployed modified software in the production server shall confirm by GIPCL. However deployment date of software changes in production server which confirmed by GIPCL shall be considered final resolution & penalty shall be calculated on this basis.
- Any software bug/issue resolution time beyond SLA period, then penalty shall be calculated as per SLA and same will be deducted from quarterly bill.
- in case of any GILDMS server will go down then AMC Vendor shall arrange for deploy senior hardware and software engineer at our site for providing support and resolve the problem on top priority without any additional cost.

- AMC Vendor shall arrange for deploy senior hardware and software engineer at GIPCL site while servers change over 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 Includes following software functions:
 - GILDMS WB Application Licenses
 - GILDMS Web Application
 - Server based GILDMS Entry-Exit Application for Loading / Unloading / Strategic points and Entry-Exit points.
 - Video Management Software (Milestone XProtect Profession 2014 software) Licenses (All RFID Cameras).
 - Integration of GILDMS Application with SAP-PI.
 - All Supporting software, middleware, firmware supporting software services etc. required for GILDMS Server and client Desktop/Workstation PCs.
- GILDMS database restoration; archival, fine tuning and maintenance support shall be covered during AMC support.
- GILDMS online database replication server monitoring, configuration, daily backup checking, problem solving and restore database as and when required as directed by GIPCL IT department.
- Updation/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.
- Daily monitoring of GILDMS all server hardware and running GILDMS software application, operating system and supporting all software and submit status reports with latest observation with issue details along with provided resolutions.

2.3 Manpower Service support Scope

- The onsite manpower support shall be provided by AMC vendor for seamless and smooth GILDMS operations at GIPCL-SLPP Nani Naroli.
- AMC vendor shall deploy two numbers of qualified degree engineer (Bachelor in Electronics or Computer Engineer) who is must have a 4 to 5 years experience in specifically RFID hardware technology, CCTV Camera, Network related hardware/software configuration, analysis, testing, debugging and resolving issue on site. GIPCL can examine or verify Educational qualification, experience and skill of deputed engineer. Support engineer shall not change throughout the AMC period

- The 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. GIPCL also maintains attendance sheet as per procedure for onsite manpower of successful bidder.
- AMC vendor shall be responsible for provide onsite techno – functional support for GILDMS application only. The personnel deployed onsite by AMC vendor has to work for issue identification, analysis, find root cause, fine tuning and solution related to hardware and software and reporting to GIPCL, IT Dept. accordingly.
- In case the support engineer posted by AMC vendor is not performing to desire level in the assigned support function or not maintain discipline or misbehave with GIPCL employees then GIPCL, have rights to terminate support engineer and ask for replacement, however failing to which GIPCL will have all rights to cancel the contract.
- 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 AMC 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 hour for day time and 22:00 hour to 06:00 hour for night time on all working days. In case of any emergency requirements, service engineer shall also require to work on public holidays, Sunday or weekly off or after routine working hours as and when required for maintain 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.
- Onsite support engineer shall check all hardware & software status with pending call detail at start/end of each working day and submit the check list report to IT Dept. as per given format at end of day.
- Help Desk shall be maintained by Support Engineer and IT officials for register track and analyze the complaints and keeping record for each call.
- 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 submit 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 AMC / warranty.
- Support engineer shall perform the Preventive Maintenance work of all hardware under AMC / Warranty like RFID reader, CCTV cameras, IP controller, traffic Light, boom barriers, UPS etc. including connected equipments like RFID Reader enclosure, CCTV Camera Enclosure, Power junction box 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. Apart from that new installation, shifting dismantles and reinstallation other than existing location of GILDMS hardware shall be done on chargeable basis.
- 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.
- In case of new installation, movement of hardware within site/location, changes and configuration of machines as directed by GIPCL-SLPP IT department.
- Support engineer has to provide support for installation / re-installation of printer and ensures 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 WB 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 AMC vendor shall responsible for replacement with same or higher version at their cost.
- Each support engineer shall be provided alternate weekly off with assurance of smooth running of GILDMS operation.
- One support engineer shall to stay on site at GIPCL any time during the AMC tenure and provide support by 24x7x365 days.
- Patch upgrades documentation as and when the patch upgrade activity is performed.
- Submit daily reports on Issue Analysis, resolved and pending activities.
- Monthly and quarterly issue review report on the issues resolved and details of Changes handled and resolved.
- Support engineer shall plan for leave well in advance and take permission from AMC vendor and arrange for substitute support engineer with respect to fulfill his qualification and experience and inform to GIPCL.
- Substitute support engineer shall arrange during any type of leave of deputed support engineer. Failing to arrange substitute support engineer attract manpower penalty as per SLA.
- In case of Support engineer shall be not attended duty in normal working days then he will be considered as an absent and liable for penalty, which shall be Rs. 1500/- per day per person.
- In case of both support engineers are absent then penalty should be double, which should be Rs. 3000/- per day per person.
- In case of replacement of support engineer become necessary then AMC vendor shall take the prior approval of the IT department with respect to support engineer fulfills his qualification and experience.
- Support engineer should carry the identity card with photograph provided by AMC vendor.
- Vendor 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 will by any GIPCL official with proper evidence then legal action shall be taken by GIPCL against AMC vendor.

2.4 General Terms and Conditions

- Deduction of hardware, software and manpower penalty from AMC vendor bill on quarterly basis.
- Any required service support infrastructure like ladder and helper shall be arranged by your own cost.
- AMC vendor shall arrange all tools and tackles etc. during AMC by their own cost.
- GIPCL shall not liable to provide local transportation.
- GIPCL will not provide logging, boarding or any other pocket allowance.
- AMC vendor shall be ensure and responsible to provide 100% running and functioning of GILDMS system including hardware, software along with system and subsystem run smoothly on 24x7x365 days.
- Maximum penalty shall not exceed 10% of the total AMC contract value of each hardware and software as per SLA.
- AMC vendor shall be providing support for their own arrangement for software upgrading of server application or client application or any other software application.
- AMC vendor has to submit request letter of support engineer detail for GIPCL SLPP plant and Mines entry gate pass as per GIPCL given format on monthly basis in advance. Without valid plant entry gate pass support engineer may not be allow attending the duty and considered as absent which may attract for penalty of manpower.
- AMC vendor have to submit valid Workman Compensation Policy (WC Policy) as per GIPCL requirement for the required manpower those will work on site at GIPCL, SLPP Plant and Mines Area. GIPCL will not permit any manpower of AMC vendor to work at GIPCL, SLPP Plant and Mines if valid WC Policy not submitted to GIPCL, which may attract for penalty of manpower.
- Support engineer shall follow GIPCL SLPP code of conduct and safety rules and regulation while come in to GIPCL SLPP plant and Mines office.
- Before the replace or install standby hardware, support engr. shall check minimum prerequisite of hardware or software and compatibility with present installed system.
- Vendor shall born cost for sending material for repairing or replacing purpose at outside GIPCL

- Vendor shall provide support their own arrangement for software upgrading of server application or client application and any other software application.
- Vendor shall provide support for SAP-PI integration with GILDMS application related problems.

3. SPECIAL CONDITIONS OF CONTRACT

DISCIPLINE:

Bidder shall carry out the maintenance job with due diligence and in a safe and workman policies. Bidder shall maintain strict discipline and good character among its employees and its sub bidder employees and shall abide by and conform to all rules and regulation circulated by GIPCL. Should corporation feel that the conduct of any of Bidder/sub bidder's employee's is detrimental to corporation's interest, the corporation shall have the right to request for the removal of such employee either for incompetence, unreliability, misbehavior, security reason etc. While on or off the job. The Bidder shall comply with any such request to remove such personnel at Bidder's expense unconditionally.

Boarding, lodging and daily transportation or bidder's experts / workmen and materials are in the scope of the Bidder; in case of availability GIPCL may share accommodation at township on subsidiaries rates.

The maintenance work is to be carried out as per safety and security rules and regulations of GIPCL.

DURATION OF CONTRACT:

The contract will be for a period of two year from the date of actual commencement of operation of the contract as stated in the Work Order / LOI.

GIPCL reserves the right to extend the Contract Period for up-to 3 months on the same terms and conditions without entering into any new contract.

RATES (PRICES)

The bidder shall quote his price in the price bid format / rate schedule (module of quantities of work).

Care should be taken by the bidder to write the quoted price both in figures and words in such a way that misinterpretation is ruled out. In the events of discrepancy between the amount started in figures and in words, the price quoted in bid shall deemed to be the correct amount.

Price quoted by the bidder shall remain firm and valid for the entire quarterly period and will not be subject to variation on any amount.

PAYMENT PROCEDURE:

The Bidder on completion of the services of each quarter shall submit original bill/invoices in triplicate along with covering letter in the name of GIPCL

The payment shall be made within 15 working date from the date of Submitting original bills/invoices in GIPCL after completion of satisfactory AMC service during quarter.

The income tax deduction will be made as per the rules prevailing. In addition to income tax, any mandatory tax and liquidated damage as per the contract clause if any will also be deducted.

SIGNING OF THE CONTRACT:

The successful bidder shall sign the detailed contract with the company on non-judicial stamp paper of requisite value, within 10 days of date of notification of award. The contract shall be signed by an authorized person of the Bidder. Any payment under the contract shall be made only after signing of detailed contract.

4. FORCE MAJEURE

Neither party shall be responsible to the other for any delay or failure in performance of its obligations due to any occurrence commonly known as Force Majeure which is beyond the control of any of the parties, including, but not limited to, fire, flood, explosion, acts of Government or any Governmental body, public disorder, riots, embargoes, or strikes, acts of military authority, epidemics, strikes, lockouts or other labour disputes, insurrections, civil commotion, war, enemy actions. If a Force Majeure arises, the Bidder shall promptly notify Tenderer in writing of such condition and the cause thereof. Unless otherwise directed by Tenderer, the successful bidder shall continue to perform his obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. The successful bidder shall be excused from performance of his obligations in whole or part as long as such causes, circumstances or events shall continue to prevent or delay such performance.

5. PAYMENT TERMS

The Successful Bidder shall be fully responsible for the delivery of the services, including all operational, maintenance, and management activities, etc. as has been defined in the RFP. The payment terms are defined in Annexure – 6.

All payments shall be made in accordance with Annexure-6 within a period of 15 days of the receipt of the invoice and certification/receipt of work/material after applicable statutory deductions like Income tax, WCT etc and any other applicable deduction specified in General conditions of the contract.

Section IV: Special Conditions of Contract

The following shall describe the roles & responsibilities of various stake holders in this project.

1 **GIPCL**

- Finalization of IT Requirements for solution proposed by selected bidder
- GIPCL shall provide its expectation for the system in consultation with selected bidder
- Signing of AMC contract agreement with selected bidder
- Network connectivity and remote connection for offsite support
- Single point of Contact information for official correspondence.
- Necessary supportive orders , notification, system change requirement and sign off will be issued & approved by GIPCL to enhance the project activity

2 **SUCCESSFUL BIDDER**

- As-is study document
- SLA Submission
- Deployment of support manpower at GIPCL SLPP locations
- Maintenance of central control center
- Spare delivery & Signoff
- Help Desk Delivery and Signoff
- Maintain SLAs

Section V: Annexure - Formats

ANNEXURE 1- COVERING LETTER

Date: dd/mm/yyyy

To,
The Addl. General Manager (M & C)
Gujarat Industries Power Company Limited (GIPCL)
P.O_ petrochemicals
Baroda- 391346
Gujarat

Reference: Tender Number

Dated

Sir,

We, the undersigned, offer to provide the services and support for "Maintenance, Support and Rate Contract for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems"(GILDMS) at GIPCL Mines in accordance with your Request for Proposal. We are hereby submitting our Proposal, which includes this Pre-Qualification Proposal, Technical Proposal and a 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.

Request for Proposal for Maintenance, Support for RFID based Lignite Dispatch Management System integrated with SAP ERP& IT Systems

- 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 if any
 - 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	

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Telephone	
Fax	
E-mail Address	
Derail of Enclosures: a) b) c)	

ANNEXURE 2 – TECHNICAL PROPOSAL

Bidder shall furnish complete Technical Solution and give detailed for –

- Proposal particulars.
- Support Methodology & Preventive Maintenance schedule and check list
- Methodology & Schedule for Capacity Building
- Qualification of the staff proposed for the support manpower
- CVs of Key persons who are going to be deputed at GIPCL for support period
- Deviation if any / Any other document as required in the RFP
- Service Level Mechanism and Escalation matrix

ANNEXURE 3 – TECHNICAL PROPOSAL

(Please fill this compliance sheet complete)

Bidder has to submit the compliance acceptance with remarks as per given format for below mentioned solution components supplied under AMC.

UHF RFID READER SPECIFICATION

Sr. No.	UHF RFID Reader Specifications	Acceptance (Yes / No)	Remarks
1	Protocol - ISO18000-6C, EPC UHF Class 1 Gen 2, Dense Reader Mode available		
2	Polarization - Circular Polarization Antenna, choice of LHCP or RHCP		
3	Minimum 4 GPIO to integrate other hardware such as CCTV, Boom Barrier in future or if existing		
4	Environment - Operating Temp: -200C to 600C (-40F to 1310F) Storage Temp: -400C to 850C (-400F to 1850F) Humidity: 98% Non-condensing		
5	Dust & Water: IP68, works in outdoor environment		
6	Connectivity - Ethernet, with PoE (PoE+ or IEEE802.3at recommended)		
7	Other Connectivity - Compatible with Ethernet-to-USB bridge, Ethernet-to-WiFi bridge and Ethernet- to-GSM/CDMA bridge		
8	Integrated GPRS / GSM modem in reader, which should be available in case of Ethernet connectivity fails.		
9	Power Supply - 12 Volt DC supply, or use PoE (PoE+ or IEEE802.3at recommended)		
10	Reader cum writer – for writing Trip sheets data on RFID Tag		
11	Able to save at least 10000 records in case of power failure/ network unavailability.		
12	Remote configuration of the readers should be possible		
13	LED indication for power and tag read operation		
14	Shock - MIL-STD-810F Method 516.5 Procedure V, 75g, 6ms, 2 shocks per axis		
15	Vibration - MIL-STD-810F Method 514.5 Category 24		

IP BASED CONTROLLER

Sr. No.	Parameter	Value	Acceptance (Yes / No)	Remarks
1	Operating Voltage	100V to 280V AC ~ (50Hz)		
2	Operating Current	Maximum 1000mA		

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3	Dimension : L X W X H :	250mm X 85mm X 300mm		
4	Weight	1800gms (Approx)		
5	Enclosure	IP65 (Weatherproof)		
6	Operating Temperature	10°C To +50°C		
7	Ethernet Connectivity	(10Mbps/100Mbps)		
8	Output Voltage for Traffic Light	230 VAC voltage o/p for Directly Control Traffic Light		
9	Output Voltage for Boom Barrier	230 VAC voltage o/p for Directly Control Boom Barrier		
10	Relay Out Put	Normally Open Output		

UHF RFID TAG SPECIFICATION

Sr. No.	UHF RFID Tag Specifications	Acceptance (Yes / No)	Remarks
1	Operating Frequency: ISO 180006C EPC class 1 Gen2 with 865 MHz		
2	User Memory: 512 bits		
3	Operating temperature: -40C to 85C		
4	Should give adequate performance on metal surface		
5	Quick and simple attachment method		
6	Destruct on removal – Temper Proof		

BOOM BARRIER SPECIFICATION

Sr. No.	Parameter	Value	Acceptance (Yes / No)	Remarks
1	Duty Cycle	100%		
2	Boom Length	3.5 m/6.0 m		
3	Opening/Closing Time	1.3 Sec for 3.5 m/4 Sec for 6.0 m		
4	Power Supply	85 – 264 VAC		
5	Power Consumption	95 W for 3.5 m/ 25 W for 3.5 m		
6	Housing	Powered coated Aluminum		
7	Protection class	IP54 or Above		
8	Compliant with	2004/108/EC, 2006/95/EC, 2006/42/EC, CE, UL 325		
9	Control Unit	Yes		
10	Weight (without Boom)	40 Kg		
11	Opening temp. range	-30 C to +55 C		

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12	Frequency	50-60 Hz		
13	Fuse	2Ah		
14	No. of input Channels	8		
15	No. of relay/ digital output	6 & 4		

FIXED IP CAMERA SPECIFICATION

Sr. No.	Parameter	Value	Acceptance (Yes / No)	Remarks
1	Image Sensor	1/3" Progressive CMOS Sensor		
2	Number of effective Pixels	752 X 582, 440 K Pixels		
3	Resolution	Max 720 x 576		
4	Scanning Frequency (H)	NTSC: 410K Pixels [811(H) x 508(V)] PAL: 470K Pixels [795(H) x 596(V)]		
5	Scanning Frequency (V)	NTSC: 380K Pixels [768(H) x 494(V)] PAL: 440K Pixels [752(H) x 582(V)]		
6	Sync System	Internal		
7	Minimum Illumination	30 IRE: Color: 0.25 / BW: 0.01 / Sens-up: 0.00001 Lux / F1.2		
		50 IRE: Color: 0.6 Lux / BW: 0.04 Lux / Sens-up: 0.00007 Lux / F1.2		
8	Horizontal Resolution	Color: 600 TV Lines / B/W: 700 TV Lines		
9	Electronic Shutter Speed	NTSC: 1/60 sec ~ 1/100,000 sec, PAL: 1/50 sec ~ 1/100,000 sec		
10	S/ N (Signal/ Noise) Ratio dB	More Than 52 dB		
11	AGC Compensation	Middle: More Than 18dB High: More than 24dB		
12	Exposure Control	Shutter, AGC, Sens-Up, Brightness, Backlight, D-WDR		
13	White Balance Mode	ATW / AWB / INDOOR / OUTDOOR / MANUAL / AWC		
14	Lens Type	CS Mount Lens Applicable		
15	Day & Night	True Day & Night		
16	Noise Reduction	3D Noise Reduction (Level Adjustable)		
17	Mirror	OFF / MIRROR / V-FLIP / ROTATE		
18	Freeze	ON/OFF		
19	Defect	SENS-UP / DIFFERENCE / START		
20	Codec Image Size (Horizontal x Vertical)	176 x 112(NTSC), 176 x 114(PAL), 352 x 240(NTSC), 352 x 288(PAL) 704 x 480(NTSC), 704 x 576(PAL), 720 x 480(NTSC), 720 x 576(PAL)		
21	Video Compression Format	H.264, MJPEG (H.264 High Profile @ Level 3.1)		

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22	Maximum Frame Rate	H.264: 30fps / 720 x 480, MJPEG: 30fps / 720 x 480 H.264: 25fps / 720 x 576, MJPEG: 25fps / 720 x 576		
23	Motion Detection Control	Yes (144 Motion Areas, Sensitivity Level Controllable)		
24	Privacy Mask Control	Yes (Up to 8 Privacy Mask Areas)		
25	Network Protocol	HTTP, RTP/RTSP, Multicast, TCP/IP, ARP, ICMP, Telnet, Ftp, PPPoE, SMTP, DHCP, NTP, UPnP, SNMP, IGMP, ETC		
26	Frame Rate & Bandwidth Control	6 Levels: Low Compression / Highest / High / Normal / Low / Lowest CBR, VBR, GOP Control		
27	Device Management	Multi user level protection for Camera access PTZ, Alarm I/O		
28	System Hardware	32bit Embedded CPU NAND Flash 128Mbytes / DDR2: 128Mbytes Linux version 2.6.xx operating system Battery backed up real-time clock		
29	Ethernet	10/100-Base-T Ethernet (Auto-Sensing)		
30	Power Over Ethernet	Optional Built in POE		
31	Audio Input & Output	1 Audio Input / 1 Audio Output (G.711)		
32	Serial Port	COM Port: RS-232, COM ports for console, serial input/output device Max Baudrate: 115,200 bps		
33	Mini SD Card Slot	Built-In, Dynamic Search and Playback Function, Up to 32 GB		
34	Wi – Fi	Optional Wi-Fi Antenna		
35	Electrical Specifications	Voltage: 12 VDC, 450mA		
36	Electrical Specifications	Max 5 W		
37	Environmental Specifications	Operating Temperature C: -10 ~ +50 Operating Humidity 95% RH Max		
38	Standard	CE, FCC, UL		

PTZ CAMERA SPECIFICATION

Sr. No.	Parameter	Value	Acceptance (Yes / No)	Remarks
1	Image Sensor	1/4"		
2	Horizontal resolution	550 TVL		
3	Zoom Ratio	X36 Optical Zoom / X12 Digital Zoom		
4	Shutter Speed	X64 ~ X2, 1/60~ 1/10,000 sec		
5	PAN/TILT Range & Speed	Range: Pan: 360°(Endless), Tilt: 180°(Auto Flip On), 90°(Auto Flip Off), Speed: Preset: 360°/sec, Manual: 0.05°~200°/sec (Zoom Proportional),		

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		Scan: 1°~180°/sec		
6	White Balance	Auto / ATW / Manual / Indoor / Outdoor / One Push (Red, Blue Gain Adjustable)		
7	Day & Night	Auto / Day / Night (ICR)		
8	Scan	8 Scans		
9	Supported Protocol	IPv4 - ONVIF, TCP/IP, UDP/IP, RTP(UDP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2c/v3(MIB-2) IPv6 - TCP/IP, HTTP, HTTPS, DHCP Security - HTTPS(SSL), Digest Authentication(ID/PW)		
10	Motion Detection	Area Mask : Notification: FTP, e-mail, Alarm out, JPEG Recording on SD card		
11	Rating	IP66		
12	Max No. of Clients	5		
13	Ethernet	10/100-Base-T Ethernet (Auto-Sensing)		
14	Audio Compression	Two way, G.711 PCM. μ -law 64kbps 8kHz		
15	IRIS	Auto/Manual		
16	Power Consumption	23W (Heater Off) 55W (Heater On) High POE IEEE 802.3at supported		
17	Supply voltage	AC 24V		
18	Certificates	FCC, CE, IP66, ROHS & UL		

46" LED SPECIFICATIONS

S.No	Parameter	Specifications	Acceptance (Yes / No)	Remark
1	Diagonal Size	46"		
2	Resolution	1080 p		
3	Aspect Ratio	16:09		
4	Sound Output	10W X 2		
5	HDMI	Min 2		
6	USB	Min 2		

DESKTOP PC

S.No	Parameter	Specifications	Acceptance (Yes / No)	Remark
1	Processors	Intel Ci3-4130 3.4GHz		
2	Chipset	Intel H81 Chipset		
3	Operating System	Windows 7 64 bit Preloaded		
4	Graphics	Integrated Intel HD Graphics 4600		
5	Memory	2 DIMM slots; Non-ECC dual-channel 1600MHz DDR3 SDRAM, supports up to 16GB		

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6	Networking	Integrated Realtek® RTL8151GD Ethernet LAN 10/100/1000; supports optional PCIe, 10/100/1000 network card, optional wireless 802.11n card		
7	I/O Ports	2 external USB 3.0 ports (rear) and 6 external USB 2.0 ports (2 front, 4 rear); 2 Serial port,1 PS/2 (optional); 1 RJ-45; 1 VGA; 1 Display Port 1.2; 1 Mic- in & 1 Headphone out (front); 1 Mic-in/Line-in & 1 Line- out(rear)		
8	Removable Media	Supports optional optical disc drives and media card reader options		
9	Hard Drives	500 GB HDD @ 7.2k rpm		
10	Keyboards & Mice	DELL USB Keyboard & USB Optical Mouse		
11	Systems Management	In-Band Systems Management		
12	Environmental & Regulatory Standards	ENERGY STAR 5.2, EPEAT Registered, CECP, WEEE, EU RoHS		
13	Warranty and Service	3 Years NBD Onsite warranty		
14	Configuration Services	Factory image load, BIOS customization, hardware customization, asset tagging, reporting		
15	Chassis			
15.1	Dimensions (H x W x D)	11.4 x 3.7 x 12.3		
15.2	Inches/(cm)	(29.0 x 9.3 x 31.2)		
15.3	Min. Weight (lbs/kg)	13.2 /6.0		
15.4	Number of Bays	1 internal 3.5", 1 external 5.25" (slim line)		
15.5	Expansion Slots	1 half height PCIe x16, 1 half height PCIe x1		
15.6	Power Supply Unit (PSU)	Standard 255W PSU Active PFC or optional 255W up to 90% Efficient PSU (80 PLUS Gold);ENERGY STAR compliant, Active PFC		

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1KV/3 KVA SMART ONLINE UPS

S.No	Parameter	Specifications	Acceptance (Yes / No)	Remark
1	Bypass	Built-in Bypass		
2	Load Crest Factor	0.125694444		
3	Output Voltage Distortion	Less than 3%		
4	Efficiency at Full Load	0.89		
5	Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1		
6	Output Connections	(8) IEC 320 C13 (Battery Backup)		
7	Other Output Voltages	220, 240		
8	Max Configurable Power (Watts)	1.4 KWatts / 2.0 kVA		
9	Output power capacity	1.4 KWatts / 2.0 kVA		
10	Topology	Double Conversion Online		
11	Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage		
12	Waveform type	Sine wave		
	Input			
13	Cord Length	2.44 meters		
14	Efficiency at Full Load	0.89		
15	Input frequency	50/60 Hz +/- 5 Hz (auto sensing)		
16	Input voltage adjustable range for mains operation	100 - 280 V		
17	Input voltage range for main operations	160 - 280 V		
18	Input Breaker Capacity	0		
19	Other Input Voltages	220, 240		
20	Input Connections	IEC-320 C20		
21	Rack Height	4 U		
	Battery			
22	Battery Slots Empty	1		
23	Included Battery Modules	1		
24	Typical recharge time	3 hour(s)		
25	Battery type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leak proof		

26	Extendable Run Time	1		
27	Replacement Battery	RBC31		
28	Battery Volt-Amp-Hour Capacity	432		
29	Runtime	Availability of Runtime Graph and Runtime Chart		
	Communication			
30	Audible Alarm	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm		
31	Control panel	LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : Overload and Bypass Indicators		
32	Emergency Power Off (EPO)	Optional		
33	Interface Port(s)	DB-9 RS-232, Smart Slot		
34	Available Smart Slot ™ Interface Quantity	1		
	Runtime			
35	Output power capacity	1.4 KWatts / 2.0 kVA		
	Surge			
36	Data Line Protection	RJ-45 Modem/Fax protection (four wire dual line)		
	Filtering	Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449		
	Physical			
37	Color	Black		
38	Maximum Depth	457 mm , 45.7 CM		
39	Maximum Height	175 mm , 17.5 CM		
40	Net Weight	26.2 KG		
41	Units per Pallet	12		
42	Rack Height	4U		
43	Shipping Depth	597 mm , 59.7 CM		
44	Shipping Height	337 mm , 33.7 CM		
45	Shipping weight	29.9 KG		
46	Shipping Width	622 mm , 62.2 CM		
47	Maximum Width	432 mm , 43.2 CM		
	Environmental			

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48	Audible noise at 1 meter from surface of unit	55.0 dBA		
49	Operating Temperature	0 - 40 °C		
50	Operating Elevation	0-3000 meters		
51	Operating Relative Humidity	0 - 95 %		
52	Storage Temperature	-20 - 50 °C		
53	Storage Elevation	0-15000 meters		
54	Storage Relative Humidity	0 - 95 %		
55	Online thermal dissipation	652.0 BTU/hr		
	Conformance			
56	Regulatory Approvals	EN 60950, EN/IEC 62040-2		
57	Standard Warranty	2 years repair or replace, optional on-site warranties available, optional extended warranties available		
	Sustainable Offer Status			
58	RoHS	Compliant		

ANNEXURE 4: COMMERCIAL BID DETAILS

Terms and Conditions:

- The financial model will be on a turnkey basis.
- The Successful Bidder will quote for each component separately.
- The payment will be made to the Successful Bidder as defined below and as per the Service level agreement.
- The bidder will deliver all the required spare hardware and accessories within 45 days after receiving the PO of AMC contract
- GIPCL reserves the rights to increase or decrease the quantity and quantum of work irrespective of any technology.
- Rate of change request will not be considered for the bid evaluation.
- The rates should be quoted exclusive of all the taxes and duties prevailing at the time of submission of tenders in INR.
- The bidder shall define the applicable taxes and their rates separately in the commercial proposal
- The bid price quoted in consolidated commercial proposal format will only be considered for financial evaluation.
- The bidder shall quote for the components inclusive of all travel expenses, Lodging, boarding or any other expenses incurred with respect the contract. Accommodation at SLPP may be provided for Engineers/Supervisors on chargeable basis in GIPCL Township subject to availability.
- The bidder shall quote the components inclusive of any other required components other than mentioned in RFP to complete the solution.
- Final rate inclusive of taxes shall be considered for financial score.
- Above mentioned quantity is as per current installation of hardware and system implementation.
- The bidder shall unequivocally accept the above conditions.

ANNEXURE 5: COMMERCIAL BID FORMAT

Sr. No.	Item Description	UoM	Quantity	AMC Required Days	AMC rate for 365 days in (Rs.) (Exclusives GST)	Total Amount For 731 days AMC Period (Rs.) (Exclusive GST)
(A)	Hardware Items details					
1	Long Range Reader (Up to 12 meter read range) with power adaptor & cable and network PoE interface cable (Enclosure), Make : CSL, Model : CS208 (Nirikshak)	Nos.	53	731		
2	Automated Boom Barrier set with plug in Radio frequency card reader, Make : BGI, Model : BGI L1000SV	Nos.	5	731		
3	IP Based 2-Reader Controller, Make: Nakalank	Nos.	30	731		
4	Traffic Light	Nos.	32	731		
5	Out Door, IP-66 rated, HDTV, day/night CCTV Fixed Network Camera Make : Honeywell Model : HICC-P-0100EIRV	Nos.	14	731		
6	Out Door, IP-66 rated, HDTV, day/night CCTV Fixed Network Camera Make : Polixel Model : CPLX4220TDN	Nos.	6	731		
7	Out Door, IP-66 rated, IK10 UL and NEMA Classification, CCTV PTZ Dome Camera, Make : Polixel Model : CPLX301	Nos.	6	731		

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8	Out Door, IP-66 rated, IK10 UL and NEMA Classification, CCTV PTZ Dome Camera, Make : Honeywell Model : HSD-361PW-NETS	Nos.	3	731		
9	Out Door, IP-66 rated, Vandal-proof IK10, CCTV PTZ Dome Camera, Make : Honeywell Model : HISD-371WE	Nos.	2	731		
10	DELL make SERVER Model : Power Edge R720	Nos.	4	731		
11	46" Philips make LED TV	Nos.	4	731		
12	EATON Make Online 1 KVA UPS, Model: 91451000IN	Nos.	17	693		
13	EATON Make Online 3 KVA UPS, Model: 91453000IN	Nos.	3	693		
(B)	Software Applications details					
1	GILDMS Desktop client software application for Weghbridges	Nos.	1	731		
2	Server based GILDMS Application software (Including Web based applications , GILDMS related all supported software services & functions, integration with CGM online e-royalty system integration support software services and integration of SAP-PI with GILDMS)	Nos.	1	731		

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(C) Onsite Manpower support						
Sr. No.	Description	UoM	QTY.		Rate(Rs.)(Exclusive GST)	Total Amount (Rs.) (Exclusive GST)
1	Onsite Manpower support	Nos.	2			
(D) New change request						
1	Per man days cost for change request for GILDMS software related new requirements only on approval basis.	Per man days				
	Total(A+B+C+D)					
	Add. GST @ ____%					
	Grand Total in Rs.					

ANNEXURE 6 – PAYMENT TERMS

Sr.No.	Component Type	Payment terms
1	Maintenance of all hardware component described in Table-1	100 % Payment at the end of each quarter
2	Maintenance of GILDMS Application software	100 % Payment at the end of each quarter
3	Operational support Manpower	100 % Payment at the end of each quarter

All payments shall be made within a period of 15 days of the receipt of the invoice and certification/receipt of work/material after applicable statutory deductions like Income tax, WCT etc and any other applicable deduction specified in General conditions of the contract.

ANNEXURE 7 – SECURITY DEPOSIT

BANK GUARANTEE TO BE EXECUTED ON A STAMP PAPER OF VALUE NOT LESS THAN Rs. 100.00 BOUGHT IN THE

NAME OF THE EXECUTING BANK

To,
The AGM(M & C)
Gujarat Industries Power Company Ltd
P.O. : Petrochemicals
Baroda-391346.

1. Name and Address of the Bank :
2. Bank Guarantee No. :
3. Date of Issue/with Effect :
4. Date of Expiry :
5. Claim Period :
6. Limited of Liability :
7. Ref .Letter of Acceptance and Date :
8. For (Name of Work) :

Subject: SECURITY DEPOSIT

In consideration of the **Gujarat Industries Power Company Ltd** ,incorporated under the Companies Act,1956 having its registered Office at -----having agreed to accepts the Security Deposit of Rs.(Rupees.....Only).M/s(hereinafter called Bidder) under the terms and conditions of the Letter of Acceptance No:.....Dated

.....foron a comprehensive basis and as per your Letter of Acceptance dated

.....(hereinunder referred to as “the said Contract” which expression shall and include the said agreement) covered under the said agreement as a Guarantee for the security of materials under the custody of the Bidder in terms of the said tender as also for the due fulfillment of all the terms and conditions contained in the said tender as also for the due fulfillment of all the terms and conditions contained in the said agreement on furnishing of a Bank Guarantee for Rs.....(Rupeesonly).We

.....(Name of the Bank) (hereinafter referred as the said Bank) hereby convent and agree with you as under:

1. We undertake to indemnify you and keep you indemnified from any loss or damage from time to time to the extent of Rs.....(Rupees Only) caused to or suffered by you or that may be caused to or suffered by you by reason of any breach or breaches on the part of the Bidder of any of the terms and conditions contained in the said agreement and in the event the Bidder shall make any

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defaults in carrying out any of the works under the said agreement or otherwise in the observance and performance of any of the terms and conditions relating thereto ,we shall forthwith without any protest or demur pay to you such sum or sums not exceeding in total the said sum of Rs.....(RupeesOnly as may be claimed by you as your losses and/or damages ,costs, charges, or expenses by reason of such default/defaults on the part of the Bidder.

2. Notwithstanding anything to the contrary, your notice as to whether the Bidder has made any such default or defaults and the amount or amounts to which you are entitled by reason thereof will be binding on us and we shall not be entitled to ask you to establish your claim under this Guarantee but will pay the same on demand without any objection.

3. The Company shall have the fullest liberty to claim payment of the amount or amounts from time to time under this Guarantee, subject to a ceiling limit of Rs.

.....(Only) as referred to above and this Guarantee shall not become invalid or infructuous because of the partial demand made by the Company upon us for payment under the circumstances stipulated hereinabove and this guarantee shall hold good in favour of the Company to the extent of the balance amount covered under this Guarantee.

4. This Guarantee shall continue and hold good until it is released by you on the application by the Bidder after expiry of the relative Guarantee period of the said contract and after the Bidder had discharged all its obligations under the said contract and produced a certificate of the due completion of the work under the said contract and submitted a No Demand Certificate.

Should it be necessary to extend this guarantee beyond the said date on account of any extension of time being granted by you to the Bidder in respect of completion of the works in the said contract or otherwise we undertake to extend the period of this Guarantee and confirm you in writing, the extension of time, on your request till such time as may be required.

5. You will have the fullest liberty without our consent and without affecting this guarantee from time to time to vary any of the terms and conditions of the said agreement or extend time of performance of the Bidder or to postpone for any time or from to time any of your rights or powers against the Bidder and either to enforce or forebear to enforce any of the terms and conditions of the said contract and we shall not be released from our liability under this Guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the Bidder or any other forbearance ,act or omission on your part, or any indulgence by you to the Bidder or by any variation or modification of the said contract /or any other act, matter or thing whatsoever which under law relating to sureties would but for the provisions hereto have the effect of so releasing us from our liability herein PROVIDED ALWAYS NOTHING herein contained will enlarge our liability beyond the limit of Rs.....(Rupees

.....Only as aforesaid or extended the period of the

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Guarantee beyond the said day ofunless expressly agreed to by us in writing. This Guarantee shall not in any way be affected by your taking or varying or giving up any securities from the Bidder or any other person, firm or company on its behalf or by the winding up ,dissolution, insolvency, re-construction or death as the case may be of the Contactor.

6. In order to give full effect to the guarantee herein contained you shall be entitled to act as if we were your principle debtors in respect of all your claims against the Bidder hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of suretyship and other rights, if any, which are in any way inconsistent with the above or any other provisions of this guarantee.

7. Subject to the maximum limit of our liability as aforesaid this Guarantee will cover all your claim or claims against the Bidder from time to time arising out of or in relation to the said contract and in respect of which your demand or notice in writing is received by us.

8. This Guarantee and the powers and provisions herein contained are in addition to and not by way of limitation of or substitution of any other guarantee or guarantees thereto given to you by us (whether jointly with other or alone) and now existing uncanceled and that this guarantee is not intended to and shall not revoke or limited such guarantee or guarantees.

10. This guarantee shall not be affected by any change in the constitution of the Bidder or us nor shall it be affected by any change in your constitution or by any amalgamation or absorption or reconstruction thereof or therewith but will ensure for and be available to and enforceable by the absorbing or amalgamated, reconstructed company or concerned.

11. This guarantee during its currency shall not be revocable by us except with your previous consent in writing.

12. It shall not be necessary for you to proceed against the Bidder before proceeding against us and the guarantee herein contained shall be enforceable against us ,notwithstanding any security which you may have obtained or obtain from Bidder at any time or when proceedings are taken against us hereunder be outstanding or unrealized.

13. We..... (Mention the name of the bank) hereby agree that any claim due and arising under this guarantee shall be enforceable against our Bank's Branch (Mentioning the name of address of the branch) at Kolkata and they shall honour such demand immediately in any case not later than next working day.

DATED _____ DAY OF _____ TWO THOUSAND....

ANNEXURE 8 – PERFORMANCE BANK GUARANTEE FORM

This Deed of Guarantee executed by the constituted amongst other places, a

Branch at(hereinafter referred to as 'the Bank ') in favour of Gujarat Industries Power Company Limited P O Petrochemicals, Vadodara 391346

Gujarat India (Hereinafter referred to as 'the Beneficiary/ the principals') for (In amount not exceeding Rs.), at The request (herein after referred to as 'the Bidder/(S)).

This Guarantee is issued subject to the condition that the liability of the bank under this guarantee is limited to a maximum of Rs....., and the guarantee shall remain in full force up to

.....(date of expiry) and cannot be invoked otherwise than by a written demand or claim under this Guarantee served on the Bank or before the (last date of claim).

In consideration of the Gujarat Industries Power Company Limited (herein after referred to as the

"Company" which expression shall unless repugnant to the context/or meaning thereof include its successors, administrators and assigns) having awarded to

having its Registered Office / Principal Office at(herein after referred to as the "Supplier" which expression shall unless

repugnant to the context or meaning thereof include its successors, administrators, executors and

assigns) an Order by issue of Company's Letter of Award

dated and the same having been unequivocally accepted by the Supplier

dated valued at Rs..... for supply ofGujarat Industries Power Company Ltd., P.O. Nani Naroli-394110, Tal.: Mangrol, Dist.: Sunrt and the

Supplier having agreed to provide as a condition precedent for performing the Scope of Work an unconditional and irrevocable Bank Guarantee, for the faithful

performance of the entire Contract, including for the quality of the Plant and Equipment and / or workmanship and satisfactory performance of equipments / systems and satisfactory services rendered during the guarantee warrantee period of 25 years under the said LOA equivalent to 10% of the said value of the order to the Company.

(Name & address of Bank) Having its Head Office at (herein after referred to as the "Bank" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors, assigns) do hereby guarantee and undertake to pay the Company immediately, on written demand any and all moneys payable by the Supplier to the extent of (in figures) Rs.) as aforesaid at any time up to 585 days [45 (Term of Contract)+540 days] or due date of Bank Guarantee Whichever earlier, without any demur, reservations, contest, recourse or protest and/or without any reference to the Supplier. Any such demand made by the Company on the bank shall be conclusive and binding notwithstanding any difference between the Company and the Supplier of any dispute pending before any Court, Tribunal, Arbitrator or any other Authority. It shall be conclusive and enough for enforcement of the bank Guarantee on the bank if Gujarat Industries power company Limited invokes the Bank Guarantee stating only that the default has been committed by the Supplier, thus far and no further. The bank

undertakes not to revoke this guarantee during its currency without previous written consent of the Company and continue to be enforceable till the Company discharges this guarantee or due date of Bank Guarantee Whichever earlier.

The Company shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the Order by the Supplier. The Company shall have the fullest liberty, without effecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Supplier, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied in the Order between the Company and the Supplier or any other course of or remedy or security available to the Company. The Bank shall not be released of its obligations under these presents by any exercise by the Company of its liberty with reference to the matter aforesaid or any of them or by reason or any other acts of omission or commission on the part of the Company or any other indulgence shown by the Company or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank. The Bank also agrees that the Company at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Supplier and notwithstanding any security or other guarantee that the Company may have in relation to the Supplier's liabilities.

Notwithstanding anything contained herein:

- 1) Our liability under this guarantee shall not exceed Rs.
- 2) This Bank Guarantee shall be valid up to; and
We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before(date of expiry of Guarantee)."

DatedDay of2018 forBank