



ODISHA MINING CORPORATION LIMITED
(A GOLD CATEGORY STATE PSU)

REVISED BID DOCUMENT
Selection of System Integrator
for

Supply and Implementation of Logistics
Management System and Command-
and-Control Center along with Annual
Support for 5 (five) years

(through e-tendering)

Bid document No: OMC/e-Proc/CMC/86/2022 dated 20.10.2022

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E-procurement notice
CORRIGENDUM-06.12.2022

Bid document No.: OMC/e-Proc/CMC/86/2022 dated 20.10.2022

The revised Bid Document is amended as below based on PREBID meeting held on 11.11.2022

1	Work name	Supply and Implementation of Logistics Management System and Command-and-Control Center along with Annual Support for 5 (five) years
2	Availability of tender documents on the e-tendering portal of Government of Odisha	Date: 20.10.2022; 5:00 PM;
3	Pre-bid meeting	Held on Dated 11.11.2022
4	Issue of responses to pre-bid queries, addendum/corrigendum, if required	Date: 06.12.2022
5	Bid Due Date	Date: 27.12.2022; Time: 4:00 PM
6	Opening of Techno-Commercial Bid	Date: 27.12.2022; Time: 5:00 PM
7	Opening of Price Bid	To be informed to the Technically Qualified Bidders
8	Tender Paper Fee (non-refundable) including GST	INR1,00,000/- (Rupees One lakh only) including GST @18%. Payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in)
9	Earnest Money Deposit (EMD)	INR 45 Lakhs (Rupees Forty-Five lakh only). Payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in)

All other details can be seen from the Tender Document available on the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in) and on the website of OMC (www.omcltd.in). OMC reserves the right to reject any or all bids without assigning any reason thereof.

Sd/-
Advisor (C&P)

Odisha Mining Corporation Ltd.

(A Gold Category State PSU)

Registered Office: OMC House, Bhubaneswar-751001

Tel: 0674 2377509, 2377488

1. Schedule for the Tender

Sl. No.	Parameter	Name
1	Date of publication of NIT	Date: 20.11.2022
2	Availability of tender documents on the e-tendering portal of Government of Odisha	Date: 20.10.2022; 5:00 PM;
3	Pre-bid meeting	Held on 11.11.2022
4	Issue of responses to pre-bid queries, addendum/corrigendum, if required	Date: 06.12.2022
5	Bid Due Date	Date: 27.12.2022; Time: 4:00 PM
6	Opening of Techno-Commercial Bid	Date: 27.12.2022; Time: 5:00 PM
7	Opening of Price Bid	To be informed to the Technically Qualified Bidders by appropriate means

2. Data Sheet

Sl. No.	Parameter	Name
1	Name of tender	Selection of System Integrator for Supply and Implementation of Logistics Management System and Command-and-Control Center along with Annual Support for 5 (five) years
2	Type of tendering	Open tendering
3	Mode of tendering	e-tender
4	E-tender site	www.tendersodisha.gov.in
5	Tender Paper Fee (non-refundable) including GST	INR1,00,000/- (Rupees One lakh only) including GST @18%. Payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in)
6	Earnest Money Deposit (EMD)	INR 45 Lakhs (Rupees Forty-Five lakh only). Payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in)
7	Amount of Performance Security	10% of the Annual Contract value (excluding taxes) Amount shall be submitted in the shape of DD or Bank Guarantee in the format provided in Annexure 8
8	Nodal Officer	Name: Mr. Ashok Kumar Mishra, DGM(IT) Phone No.: 0674- 2377490 Email: akmishra@odishamining.in
9	Address of the OMC Limited	OMC House, P.O. Box No.34 Bhubaneswar - 751 001 Odisha, India
10	Bid document No.	OMC/e-Proc/CMC/86/2022 dated 20.10.2022

3. Disclaimer

- 3.1 This Bid document is neither an agreement nor an offer by OMC to the prospective Bidders or any third party. The purpose of this Bid document is to provide interested parties with information to facilitate the formulation of their Bid pursuant to this Bid document.
- 3.2 This Bid document includes statements, which reflect various assumptions and assessments arrived at by OMC. Such assumptions, assessments and statements do not purport to contain all the information that a Bidder may require. This Bid document may not be appropriate for all persons, and it is not possible for OMC to consider the particular needs of each party who reads or uses this Bid document. The assumptions, assessments, statements and information contained in the Bid document may not be complete, accurate, adequate or correct. Each Bidder must, therefore conduct its own due diligence and analysis and should verify the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this Bid document and obtain independent advice from appropriate sources.
- 3.3 Information provided in this Bid document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information provided is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. OMC accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.
- 3.4 OMC, its employees and its consultants make no representation or warranty and shall have no liability to any person including any Bidder under any law, statute, rules or regulations, the law of contract, tort, principles of restitution or unjust enrichment or otherwise for any loss, damage, cost or expense which may arise from or be incurred or suffered in connection with this Bid document, or any matter deemed to form part of this Bid document, or arising in any way in relation to this Bidding Process.
- 3.5 Neither OMC nor its employees or its consultants make any representation or warranty as to the accuracy, reliability or completeness of the information in this Bid document. OMC also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this Bid document.
- 3.6 The Bidder should confirm that the Bid document downloaded by them is complete in all respects including all annexures and attachments. In the event the document or any part

thereof is mutilated or missing, the Bidder shall notify the Nodal Officer immediately in writing.

- 3.7 If no intimation is received within the last date for submission of Pre-Bid queries, it shall be considered that the Tender Documents received by the Bidder is complete in all respects and that the Bidder is fully satisfied with the Tender Documents.
- 3.8 No extension of time shall be granted to any Bidder for submission of its Bid on the ground that the Bidder did not obtain the complete set of Tender Documents.
- 3.9 This Bid document and the information contained herein are strictly confidential and privileged and are for the exclusive use of the Bidder to whom it is issued. This Bid document shall not be copied or distributed by the recipient to third parties (other than, to the extent required by Applicable Law or in confidence to the recipient's professional advisors, provided that such advisors are bound by confidentiality restrictions at least as strict as those contained in this Bid document). In the event after the issue of the Bid document, the recipient does not continue with its involvement in the Bidding Process for any reason whatsoever, this Bid document and the information contained herein shall be kept confidential by such party and its professional advisors at all times.
- 3.10 OMC may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the statements, information, assessment or assumptions contained in this Bid document at any time during the Bidding Process. All such changes shall be uploaded on the e-procurement portal of the Government of Odisha and on the website of OMC. It is the duty of Bidders to visit the e-procurement portal and the website of OMC regularly and keep themselves updated on the Bidding Process and any communication made in relation to the Bidding Process.
- 3.11 The Bidders or any third party shall not object to such changes/modifications/additions/alterations as provided in Clause 3.10 above, explicitly or implicitly. Any such objection by the Bidder shall make the Bidder's Bid liable for rejection by OMC. Further objection by any third party shall be construed as infringement on confidentiality and privileged rights of OMC with respect to this Bid document.
- 3.12 The Bidder shall not make any public announcements with respect to the Bidding Process, this Bid document and/or the Bidding Documents. Any public announcements to be made with respect to the Bidding Process or this Bid document shall be made exclusively by OMC. Any breach by the Bidder of this Clause shall be deemed to be in non-compliance with the terms and conditions of this Bid document and shall render the Bid liable for rejection. OMC's decision in this regard shall be final and binding on the Bidder.

- 3.13 By responding to the Bid document, the Bidder shall be deemed to have confirmed that it has fully satisfied and has understood the terms and conditions of the Bid document. The Bidder hereby expressly waives any and all claims in respect thereof.
- 3.14 The Bid is not transferable.

4. Abbreviations

AMC	Annual Maintenance Contract
BG	Bank Guarantee
BOQ	Bill of Quantity
DSC	Digital Signature Certificate
EFT	Electronic Fund Transfer
EMD	Earnest Money Deposit
ESI	Employee's State Insurance
FoR	Freight on Road
FY	Financial Year
GCC	General Conditions of Contract
GST	Goods and Services Tax
GSTIN	GST Identification Number
GSTR	GST Returns
GTE	General Technical Evaluation
I/C	In-Charge
IFSC	Indian Financial System Code
INR	Indian Rupee / legal tender currency of India
ISI	Indian Standards Institute
ISO	International Organization for Standardization
IT	Income Tax /Information Technology
ITC	Input Tax Credit
JV	Joint Venture
LD	Liquidated Damages
LLP	Limited Liability Partnership
LoA	Letter of Award
MICR	Magnetic Ink Character Recognition
MSE	Micro & Small Enterprises
MSME	Micro, Small & Medium Enterprises
NEFT	National Electronic Funds Transfer
NIT	Notice Inviting Tender
OEM	Original Equipment Manufacturer
OMC	Odisha Mining Corporation
PAN	Permanent Account Number
PSU	Public Sector Undertaking
RfP	Request for Proposal
RTGS	Real Time Gross Settlement
SCC	Special Conditions of Contract
SO	Service Order
SI	System Integrator
TIA	Tender Inviting Authority

5. Definitions and Interpretations

The words and expressions beginning with capital letters and defined in this document shall, unless repugnant to the context, have the meaning ascribed thereto herein.

- 5.1 “Applicable Laws” means all laws, legislations, statutes, rules, directives, ordinances, notifications, exemptions, regulations, judgments/ orders of any court, tribunal, regulatory bodies and quasi-judicial bodies or any interpretation thereof enacted, issued, or promulgated by any authority and applicable to either OMC or to the Bidders;
- 5.2 “Authorized Signatory” shall have the meaning as set forth in Clause 8.5;
- 5.3 “Bid” means the documents submitted by a Bidder pursuant to this Bid document, including the Techno-Commercial Bid along with any additional information/clarifications required/ sought by OMC and the Price Bid, submitted strictly in the formats provided by OMC. The Bid shall not be considered to be a Bid if it is not submitted as per the formats prescribed by OMC;
- 5.4 “Bidder” designates the legal entity which has made a proposal, a tender or a bid with the aim of concluding a Service Order / Agreement with OMC;
- 5.5 “Bidding Process” means the process governing the submission and evaluation of the Bids as set out in the Bid document itself;
- 5.6 “Bid Due Date” shall mean the last date for submission of bids, as given in the Schedule for the Tender. No bids shall be accepted in the e-procurement portal after the Bid Due Date;
- 5.7 “Bid Validity Period” shall have the meaning given to it in Clause 8.8;
- 5.8 “EMD” means the amount submitted by a Bidder to OMC for participating in the Bidding Process, in terms of Clause 8.7;
- 5.9 “Financial Criteria” shall have the meaning given to it in Clause 7.2;
- 5.10 “Financial Year” means the 12 months period from 1st April to 31st March corresponding to the audited annual accounts;
- 5.11 “Letter of Award (LoA)” means the written official intimation by OMC notifying the Selected Bidder that the work has been awarded in its favour as per the terms and conditions mentioned therein;
- 5.12 “Net Worth” shall have the meaning ascribed to it in Section 2(57) of the Companies Act, 2013;

- 5.13 “Notice Inviting Tender” or “Bid document” or “RfP document” or “Tender Paper” or “Tender Documents” or “Tender” or “Bid Documents” means documents issued by OMC vide Bid document No. **OMC/e-Proc/CMC/86/2022 dated 20.10.2022** for Procurement of Services – [Supply and Implementation of Logistics Management System (LMS) with Annual Support for 5 (five) years] and shall include any modifications, amendments, corrigenda/ addenda or alterations thereto. The documents are as follows:
- a) This Bid document;
 - b) Any corrigendum(a)/addendum(a) and clarification(s) to the Bid document issued by OMC subsequent to the issue of the Bid document will also be considered an integral part of the Bid document. Any reference to the Bid document in the Agreement shall include such corrigendum(a)/ addendum(a);
- 5.14 “OMC” means The Odisha Mining Corporation Limited having its registered office at Bhubaneswar – 751 001, Odisha including its successor and assignees or its representatives;
- 5.15 “Pre-bid Meeting” means Pre-bid meeting to be held as per the schedule indicated in the Schedule for the Tender hereof;
- 5.16 “Price Bid” means the Price Bid submitted by the Bidder, in accordance with Clause 8.15.2;
- 5.17 “Related Party” shall have the meaning ascribed to it in Section 2(76) of the Companies Act, 2013;
- 5.18 “Revised Price Bid” shall have the meaning given to it in Clause 8.21.1; <to be kept in case of L1 selection only>
- 5.19 “Selected Bidder” shall have the meaning given to it in Clause 8.21;
- 5.20 “Successful Bidder” shall have the meaning given to it in Clause 8.22;
- 5.21 “Technical Criteria” shall have the meaning given to it in Clause 7.1;
- 5.22 “Technically Qualified Bidder” means a Bidder whose Techno-Commercial Bid is responsive and meets the requirements to the satisfaction of OMC as per terms and condition of the Bid document and is qualified for opening of its Price Bid;
- 5.23 “Techno-Commercial Bid” means proposal submitted by the Bidder in accordance with Clause 8.15.1;
- 5.24 “Tender Paper Fee” shall have the meaning as set forth in Clause 8.6;
- 5.25 “Turnover” shall have the meaning ascribed to it in Section 2(91) of the Companies Act, 2013.

All other capitalized words not defined herein shall have the same meaning as ascribed to them in the Bid document. Terms and expressions not defined anywhere in the Bid Documents shall have the same meaning as are assigned to them in Indian Contract Act, 1872 and/or in General Clauses Act, 1897.

6. Scope of Services

6.1 The System Integrator (SI) shall develop, customize, and implement the Logistics Management System (LMS) which shall help OMC and its management in tracking, streamlining, controlling and coordinating various stages in Logistics management related to both Production and Sales of Ores at Mines and Installation of Command-and-Control Center (CCC) and its necessary network connectivity for tracking and monitoring the activities at mines and related areas.

6.2 The selected SI shall implement LMS and CCC at following locations of OMC.

S No.	Location	Regional Office	District
1	Kurmitar	Koira	Sundergarh
2	Guali	Barbil	Keonjhar
3	Jilling	Barbil	Keonjhar
4	Apahatu	Barbil	Keonjhar
5	Dubuna	Barbil	Keonjhar
6	Kodingamali	Rayagada	Koraput
7	Tiringpahad	Barbil	Keonjhar
8	Uchabali	Barbil	Keonjhar
9	Banspani	Barbil	Keonjhar
10	Khandbandh	Barbil	Keonjhar
11	South Kaliapani	Jajpur Road	Jajpur
12	Sukrangi	Jajpur Road	Jajpur
13	Bangur	Bangur	Keonjhar

6.3 The SI has to Implement the LMS at all locations mentioned above in 60 Weeks from the date of signing of agreement.

6.4 The SI has to provide Annual Support Services for LMS and CCC for the first mines, where the Go-Live has occurred first, starting from 2 months beyond Go-Live of first mines for a period of 5 years. For rest of the mines Annual Support Service shall start from 2 months beyond the Go-Live of that particular mine and shall be co-terminus with Annual Support Service's period for 1st Mines where Go-Live has occurred first.

6.5 The detailed scope and specifications of the services, along with the contract period, payment terms, etc. are given in Special Conditions of Contract as enclosed in Annexure 2.

- 6.6 The “General Conditions of Contract-Services” as enclosed in the tender at Annexure 1 shall form an integral part of the Bid document and will also form a part of the Agreement placed against this tender.

7. Eligibility Criteria

The Bidders eligible to participate in this tender should fulfill the following Criteria:

#	Criteria	Required Documents
7.1	<p><u>Technical Criteria</u></p> <p>The Bidder must have experience of having successfully executed similar work during the last 7 (Seven) years, which shall be either of the following:</p> <ul style="list-style-type: none"> i) Three similar completed Services of value not less than INR 16 Crore for each project OR ii) Two similar completed Services of value not less than INR 20 Crore for each project OR iii) One similar completed Service of value not less than INR 32 Crore. <p><u>Note:</u></p> <ul style="list-style-type: none"> a. "Similar completed Services" shall mean the Bidder should have successfully executed any of the work mentioned below <ul style="list-style-type: none"> I. Implementation of Logistic Management System II. Implementation of Integrated Traffic Management System / Toll Management III. City Surveillance Projects along with Command & Control Centre IV. Integration of Smart City with CCC and traffic management being part of it. b. Applicable 7 (Seven) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2015-16, 2016-17, FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21 and FY 21-22) 	<p>Self-attested copies of</p> <ul style="list-style-type: none"> a) Relevant contracts or work orders or agreements containing the scope of services, the value of the contract or work order or agreement; and b) Completion certificate from their clients/employers, regarding successful completion of the services c) In case value of the contract is not mentioned in the contract or work order or agreement, then the value must be mentioned in the completion certificate issued by the client/ employers d) In case, the bidder fails to avail the completion certificate from their client/employer, the proof of completion duly certified by its Statutory Auditor shall be submitted

#	Criteria	Required Documents
7.2	<p><u>Financial Criteria</u></p> <p>i) Average financial turnover of the Bidder during the last 3 (three) financial years should be at least 50 Crores (Fifty Crores)</p> <p>ii) Net worth of the Bidder in each of the last 3 (three) financial years should be positive as per audited balance sheet.</p> <p>iii) Bidder should submit a solvency certificate issued by any Nationalised/ Scheduled Commercial Bank for an amount at least INR 4 Crore (Four Crore Only). The certificate should not be dated earlier than three months from the Bid Due Date.</p> <p><u>Note:</u> Applicable 3 (three) years - FY 2019-20, FY 2020-21 and FY 2021-22</p>	<p>a) Copies of audited financial statements</p> <p>b) In case the audited financial statement of the last financial year is not yet ready, the Bidder shall submit unaudited financial statements, certified by its statutory auditor</p> <p>c) Copy of Solvency certificate as set out in Clause 7.2 (iii) hereof, issued by any Nationalized / Scheduled Commercial Bank.</p>
7.3	Other Criteria	
7.3.1	<p>The Bidder can be either</p> <p>i) a Company (Private or Public), or</p> <p>ii) a registered partnership firm, or</p> <p>iii) an LLP firm</p>	<p>Copies of</p> <p>a) Company (Private or Public)</p> <ul style="list-style-type: none"> • Certificate of Incorporation • Memorandum of Association • Articles of Association <p>b) Registered partnership firm</p> <ul style="list-style-type: none"> • Registration certificate • Deed of Partnership <p>c) LLP firm</p> <ul style="list-style-type: none"> • Certificate of Incorporation • Deed of Partnership
7.3.2	The Bidder should have valid PAN and GSTIN registration	<p>▪ Copy of PAN</p> <p>▪ Copy of GST registration certificate – REG 06</p>
7.3.3.	The Bidder should not have been banned/blacklisted by OMC or any	Affidavit to this effect, as per the format given in Annexure 5

#	Criteria	Required Documents
	government agency or any PSU as on the date of submission of Bid	
7.3.4	Tender Paper Fee, EMD amount and Power of Attorney	a) Proof of payment of Tender Paper Fee; Please refer to Clause 8.6 for further details b) Proof of payment of EMD; Please refer to Clause 8.7 for further details. c) Power of Attorney (as per the format given in Annexure 3) in favour of the Authorized Signatory of the Bidder who shall also be the DSC holder and Board Resolution. Please refer to Clause 8.5 for further details
7.3.5	The Bidder whose Contract/Agreement with OMC had been terminated /failed to perform will not be eligible to participate in the bidding.	Decision of OMC in this regard is final & binding on all such entities

Note

- 1) The value of the contracts or work orders or agreements to be considered shall be exclusive of all taxes and duties.
- 2) The Bidder ought to have completed the scope of services in the technical capacity above, even if the total contract or Work Order is not completed/ closed. However, Bidder ought to have completed the entire range of services as specified in the Bid document, even if the total Contract is not completed/closed. The Bidder shall also be required to submit a part completion certificate / under execution certificate which should clearly indicate the value and the completed portion (physical progress) of the work (which should satisfy requirement of the Bid document). The part completion certificate shall also highlight if the part performance/ progress of the work of the Bidder with respect to the services under consideration, was satisfactory or not.
- 3) Bidding in the form of a consortium is **NOT** allowed.

8. Instruction to Bidders

- 8.1 The Bidders intending to participate in this tender are required to register on the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in.) This is a onetime activity for registering on the Government website. During registration, the Bidders will be required to attach a Digital Signature Certificate (DSC) to the Bidder's unique user ID. The DSC used should be of appropriate class (Class II or Class III) issued from a registered Certifying Authority. The registration of Bidders on the portal shall be free of cost. The registration shall be in the name of the Bidder, whereas the DSC holder shall be the duly Authorized Signatory of the Bidder.
- 8.2 The tender documents shall be available on the state e-procurement portal (www.tendersodisha.gov.in) and the website of OMC (www.omcltd.in). There shall be no sale of hard copies of the tender documents. Tenders can be accessed by the prospective Bidders at the above websites and may be downloaded by them free of cost. However, the Tender Paper Fee shall have to be paid at the time of bid submission, unless exempted to be paid by the competent authority.
- 8.3 E-tendering process is mentioned in Chapter 10.
- 8.4 The bids are to be submitted in two covers, consisting of: (i) **Techno-Commercial Bid (under Cover I)** and (ii) **Price Bid (under Cover II)**. Both the Techno-Commercial Bid and the Price Bid have to be submitted on the e-procurement portal of the Government of Odisha.
- 8.5 The Authorized Signatory of the Bidder shall be duly authorized by a Power of Attorney authorizing him/her to perform all tasks related to tender submission, including but not limited to sign and submit the bid and to participate in the bidding process on behalf of the Bidder. The format for the Power of Attorney is given in Annexure 3 of this Bid document. Board Resolution shall also be provided along with Power of Attorney. Each page of all scanned documents submitted as part of the Techno-Commercial Bid shall be initialed with date by the Authorized Signatory of the Bidder at the lower left-hand corner of each page.
- 8.6 Tender Paper Fee
- 8.6.1 The Bidder shall pay to OMC a non-refundable amount ("Tender Paper Fee"), indicated in the Data Sheet, as part of its Techno-Commercial Bid. The mode of payment of the Tender Paper Fee is also indicated in the Data Sheet.

- 8.6.2 The Bidders, who are exempted to deposit Tender Paper Fee due to any exemption granted by the Government of Odisha, are required to attach scanned copy of relevant documents evidencing such exemption granted, along with the Techno-Commercial Bid document while submitting online. The Bidders, who does not submit Tender Paper Fee claiming exemption but does not submit relevant document, is ineligible for bidding and such bid shall be summarily rejected.
- 8.7 Earnest Money Deposit (EMD)
- 8.7.1 Bidders as part of their Techno-Commercial Bid shall have to submit an Earnest Money Deposit; the amount of the EMD is indicated in the Data Sheet.
- 8.7.2 Mode of Payment:
The EMD shall be payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in).
For the avoidance of doubt, it is clarified that OMC shall not be liable to pay any interest on the EMD deposit so made and the same shall be interest free.
- 8.7.3 Return of EMD:
The EMD of the technically disqualified Bidders shall be returned after declaration of the list of such technically qualified Bidders in the portal. The EMD of other unsuccessful Bidders shall be refunded after signing of the Agreement with the Successful Bidder. The return of the EMD shall be in the form of bank transfer to the account of the Bidder through the e-procurement portal of the Government of Odisha.
- 8.7.4 The Bidders, who are exempted to deposit EMD amount due to any exemption granted by the Government of Odisha, are required to attach scanned copy of relevant documents evidencing such exemption granted, along with the Techno-Commercial Bid document while submitting online. The Bidders, who does not submit EMD amount claiming exemption but does not submit relevant document, is ineligible for bidding and such bid shall be summarily rejected.
- 8.7.5 The EMD of the Selected Bidder shall be returned upon the Selected Bidder furnishing the Performance Security.
- 8.7.6 Forfeiture of EMD: The EMD shall be forfeited and appropriated by OMC as a genuine pre-estimated compensation and damages payable to OMC for, inter alia, the time, cost and effort of OMC without prejudice to any other right or remedy that may be available to OMC hereunder, or otherwise, under the following conditions:

- i) if any of the documents submitted by a Bidder as part of the bid is found to be not genuine or forged or any of the claims, confirmations, statements or declarations of the Bidder is found to be incorrect or inconsistent, or is a case of any material misrepresentation of facts at any point of time during the bid evaluation process;
- ii) if the Selected Bidder fails to acknowledge and return to OMC a signed copy of the LoA or Agreement within the timeframe allowed by OMC;
- iii) if the Selected Bidder fails to submit the Performance Security within the timeframe allowed by OMC;
- iv) if a Bidder withdraws its bid before completion of the bidding process during the bid validity period, except as provided in Clause 8.8;
- v) If the Bidder has otherwise committed any breach of the terms of this Bid document;
- vi) in case the Selected Bidder, does not comply with the requirements of the Price Bid or the revised Price Bid, as the case may be;
- vii) in case the Techno-Commercial Bid of a Bidder contains any information on the Price Bid of the Bidder;

8.7.7 In case of cancellation of the tender before bid opening date and time, the EMD shall be refunded to respective Bidder's account.

8.8 Bid validity period: The bid shall initially remain valid and binding on the Bidder for at least 180 (one hundred and eighty) days from the Bid Due Date, as given in the Schedule for the Tender. Any bid with a shorter validity period shall be rejected by OMC. Under exceptional circumstances, OMC may in writing request the Bidders to extend the bid validity period of their bids. In case the Bidder refuses the request of OMC to extend its bid, the EMD of such Bidder will be returned to the Bidder. However, such bids will not be evaluated further.

8.9 Issue of clarifications: Bidders may also send their queries by email to the Nodal officer; queries received after the last date for sending queries (as per the Schedule for the Tender) may not be considered by OMC. The responses to the queries received shall be published by OMC on its website and also on the e-procurement portal of the

Government of Odisha and the same shall also be considered to be a part of the tender documents; however, the source of queries shall not be mentioned.

- 8.10 Issue of corrigendum / amendment: At any time prior to the Bid Due Date, OMC may at its own initiative or in response to a query or clarification requested by a prospective Bidder if found appropriate, issue a corrigendum/ amendment to the tender documents, which shall be available for download on its website and also on the e-procurement portal of the Government of Odisha and the same shall also be considered to be part of the tender documents. In order to give Bidders reasonable amounts of time to take into account such corrigendum / amendment, OMC may at its own discretion also extend the Bid Due Date.
- 8.11 Extension of Bid Due Date: OMC may, at its discretion, extend the Bid Due Date which shall be related as an act of amendment of this Bid document.
- 8.12 Acknowledgement by the Bidder: It shall be deemed that by submitting its bid, the Bidder has:
- i) made a complete and careful examination of the tender documents, including the proforma agreement;
 - ii) received all relevant information requested from OMC;
 - iii) accepted the risk of inadequacy, error or mistake in the information provided in the tender documents or furnished by or on behalf of OMC relating to any of the matters related to this tender or otherwise;
 - iv) satisfied itself about the scope of work and services to be delivered/rendered and the extant conditions and all matters, things and information necessary and required for submitting an informed bid and for providing the required services in accordance with the tender documents including the contract (to be signed with OMC) and performance of all of its obligations thereunder;
 - v) acknowledged and agreed that inadequacy, lack of completeness or incorrectness of information said to be in the bidding documents or ignorance of any of the matters shall not be a basis for any claim for compensation, damages, extension of time for performance of its obligations, loss of profits etc. from OMC;
 - vi) agreed to be bound by the undertakings provided by it under and in terms; and

OMC shall not be liable for any omission or commission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the tender documents or the bidding process, including any error or mistake therein or in any information or data given by OMC.

- 8.13 Right to accept or reject any/ all bids: Notwithstanding anything contained in the Bid document, OMC reserves the right in its sole discretion, without any obligation or liability whatsoever, to accept or reject any or all of the Bids at any stage of the Bidding Process without assigning any reasons, thereof. Further OMC reserves the right to annul the Bidding Process and / or to reject any or all Bids at any stage prior to the signing of Agreement without thereby incurring any liability to the affected Bidders or any obligation to inform the affected Bidders of the grounds for OMC's action. Decision of OMC shall be final and binding in this regard. OMC reserves the right to reject any bid if at any time, a material misrepresentation is made or uncovered or if the bid received is conditional or qualified.
- 8.14 Language of the bid: The bid and all related correspondence and documents in relation to the bidding process shall be in the English language. Supporting documents and printed literature furnished by the Bidder with the bid may be in any other language provided that they are accompanied by translations of all the pertinent passages in the English language, duly authenticated and certified by the Bidder. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the bid, the English language translation shall prevail. The English translation of the documents shall be carried out by professional translators and the translator shall certify that he is proficient in both languages in order to translate the document and that the translation is complete and accurate.
- 8.15 Bid to be submitted by Bidders: The bid to be submitted by Bidders shall consist of the Techno-Commercial Bid and the Price Bid.
- 8.15.1 Techno-Commercial Bid: Bidders shall have to submit their Techno-Commercial Bid on the e-procurement portal of the Government of Odisha. The Techno-Commercial Bid should consist of clear and legible scanned copies of all the required documents and should be submitted within the Bid Due Date, as indicated in the Schedule for the Tender. The Techno-Commercial Bid shall contain no information on the Price Bid of the Bidder. The Techno-Commercial Bid shall consist of the following:
- i) Documents Supporting Eligibility Criteria (Refer Chapter 7)
 - ii) Techno-Commercial Bid checklist as per Annexure 6
 - iii) Mandate Form for Bank payment through e-mode as per Annexure 7

- iv) Documents towards fulfillment of Technical Scoring criteria as per Clause 8.19.6
- v) Signed copy of Integrity Pact as provided in Annexure 13 – to be signed by the Authorized Signatory of the Bidder

8.15.2 Price Bid: The Price Bid shall be submitted on the e-tender portal of the Government of Odisha as per the price bid format in Annexure 4.

8.16 Material deviation

8.16.1 Bids shall be liable for rejection in case of material deviation, that shall include, inter alia, the following:

- i) The Techno-Commercial Bid or any accompanying document or Price Bid submitted by the Bidder is not in accordance with the formats given in this tender document.
- ii) The Techno-Commercial Bid is not accompanied by all the documents required to be submitted in terms of this tender document as per Clause 8.15.1
- iii) It does not contain all the information (complete in all respects) as requested in this tender document (in accordance with the formats provided in this tender document);
- iv) The Techno-Commercial Bid is not accompanied by documentary evidence of the credentials of the Bidder(s).
- v) The Techno-Commercial Bid or Price Bid submitted by the Bidder is conditional or qualified.
- vi) The bid submitted by the Bidder is not valid for the minimum bid validity period, as per Clause 8.8.
- vii) It is otherwise substantially/ materially in deviation of the terms and conditions of the tender document.

8.16.2 OMC may waive any nonconformity in the Bid that does not constitute a material deviation, reservation or omission. OMC may request that the Bidder submit information or documentation, within a reasonable period of time (Refer Clause 8.19.3), to rectify nonmaterial nonconformities in the Technical-Commercial Bid related to documentation

requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the Price Bid. Failure of the Bidder to comply with the request of OMC by the date specified therein, may result in the rejection of its Bid. OMC, however, is not bound to waive such non-conformity under this Clause 8.16.2.

- 8.17 Bid preparation cost: The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by OMC or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and OMC shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.
- 8.18 Opening of Techno-Commercial Bids: The Techno-Commercial Bids shall be opened as per the schedule indicated in Schedule for the Tender.
- 8.19 Evaluation of Techno-Commercial Bids:
- 8.19.1 The Techno-Commercial Bids shall first be evaluated to determine whether they are complete, whether the required documents have been submitted in the correct formats and whether the documents have been properly signed by the Authorized Signatory and whether the Techno-Commercial Bid is generally in order. It will be determined whether the Techno-Commercial Bid is of acceptable quality, is generally complete and is substantially responsive to the tender documents. For purposes of this determination, a substantially responsive Techno-Commercial Bid is one that conforms to all the terms, conditions and specifications of the tender documents without any material deviations (as defined in Clause 8.16), objections, conditionalities or reservations.
- 8.19.2 A Techno-Commercial Bid which is not substantially responsive, may be rejected by OMC, and may not subsequently be made responsive by the Bidder by correction of the material deviations, as defined in Clause 8.16.
- 8.19.3 If required, OMC may ask Bidders to provide clarifications on the uploaded documents provided in the Techno-Commercial Bid, if necessary, with respect to any doubts or illegible documents. The Officer Inviting Tender may ask for any other documents of historical nature during Technical Evaluation of the tender. Non submission of legible documents may render the bid nonresponsive. The authority inviting bid reserves the right to accept any additional document. Such clarifications shall be submitted by the Bidder in the Upload Shortfall document section of the e-procurement portal or shall be submitted through email. The Bidders shall be allowed a maximum time period of 3 (three) working days for uploading on the e-procurement portal/ submitting the requisite shortfall documents through email. However, no changes in the Price Bid shall be sought,

offered or permitted, nor shall the documents sought be related to the EMD. No modification of the bid or any form of communication with OMC or submission of any additional documents, not specifically asked for by OMC will be allowed and even if submitted, they may not be considered by OMC.

8.19.4 The responsive Techno-Commercial Bids shall then be evaluated in detail to determine whether they fulfill the eligibility criteria (as given in Chapter 7) and other requirements of the tender, such as submission of all the requisite documents as listed in Clause 8.15.1.

8.19.5 The Techno-Commercial Bids which fulfill the above criteria shall be evaluated further in accordance with the scoring criteria given in Clause 8.19.6 and a Technical Marks shall be assigned to each such Techno-Commercial Bid. Techno-Commercial Bids which do not fulfill the above criteria shall not be evaluated further and shall not be considered to be a technically qualified bid. Techno-Commercial Bids which fulfill the above criteria and which receive Technical Marks of 70 (seventy) or higher out of 100 shall be considered to be technically qualified bids.

8.19.6 The Technical Scoring criteria is specified below:

Sl. No.	Criteria	Maximum score	Marking Scheme	Documents to be submitted in the Techno-Commercial Bid
1	Organizational Capacity	20		
1A	Average turnover of the bidder in the last 3 (three) Financial Years <u>Note:</u> Applicable 3 (three) years – Continuous period of three years out of FY 2019-20, FY 2020-21 and FY 2021-22	20	<ul style="list-style-type: none"> 10 Marks for 50 Crore Turnover. Additional 2.5 marks for each increment in turnover of 25 Crore 	Audited Balance Sheet and profit & loss statement for the relevant Financial Years
2	Technical Capability	50		
2A	Undertaken Similar Completed Services during the last Seven financial years i.e. FY 2015-16, FY 2016-17, FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21 and FY 2021- 22)	25	<p>10 Marks – for meeting technical qualifying criteria as per clause 7.1.1</p> <p>5 marks for each additional project with project value</p>	<ul style="list-style-type: none"> Work order along with completion certificate or Part Completion / Under Execution certificate showing completion under the scope. In case, the bidder fails to avail the

Sl. No.	Criteria	Maximum score	Marking Scheme	Documents to be submitted in the Techno-Commercial Bid
	<p>Similar completed Services” shall mean the Bidder should have successfully executed any of the work mentioned below</p> <p>I. Implementation of Logistic Management System</p> <p>II. Implementation of Integrated Traffic Management System</p> <p>III. Surveillance Projects along with Command & Control Centre</p> <p>IV. Integration of Smart City with CCC and traffic management being part of it.</p>		<p>more than INR 5 Crores</p> <p>Maximum of 3 additional projects</p>	<p>completion certificate from their client/employer, the proof of completion duly certified by its Statutory Auditor shall be submitted</p>
2B	Number of years of Experience in providing IT management and support services	10	<p>>5 Years & Less than 10 Years: 5 marks.</p> <p>>=10 Years – 10 Marks.</p>	Certificate of Incorporation of company.
2C	<ul style="list-style-type: none"> • CMMi level 3 or Higher • ISO 9001 • ISO 20000 • ISO 27001 	10	2.5 Marks each for CMMi, ISO 9001, ISO 20000 and ISO 27001	Certificates issued by accreditation body
2D	Experience of having worked in Mining Sector.	5	5 Marks for any one work / service completed in Mining Sector	Work Order or Certificate from Client having details of mines where work has been done.
3	Approach and methodology (A&M)	30		

Sl. No.	Criteria	Maximum score	Marking Scheme	Documents to be submitted in the Techno-Commercial Bid
3A	Approach and methodology submitted as part of the Techno-Commercial Bid	10	Based on the quality of the A&M section which should be part of the Techno-Commercial Bid	To be submitted as part of the Techno-Commercial Bid It should be a concise, complete, and logical description of A&M as proposed by the Bidder in compliance to the ToR - As per format in Annexure 12
3B	Quality of Presentation: During presentation, the bidder shall be evaluated on the following: <ol style="list-style-type: none"> 1. Understanding of the assignment 2. Approach and Methodology 3. Standard operation procedures adopted 4. Brief of similar projects (2 nos.) 5. Proposed project timeline 6. Risk management & mitigation plan 7. Support & maintenance plan 8. Backup continuity plan 9. Training to personnel Exit Management	20	Only those Bidders who fulfill the requirements of the eligibility criteria (as given in Chapter 7) would be asked to give a presentation on their approach & methodology. Copy of Presentation to be submitted at least one day before the declared date of presentation through mail to cmc@odishamining.in	
Technical Marks		100		

8.20 Opening and Evaluation of Price Bids

8.20.1 The date and time of opening of the Price Bids shall be communicated to the technically qualified Bidders in writing by e-mail or registered post/Speed Post; the Price Bids of only

technically qualified Bidders shall be opened. A comparative statement shall be prepared detailing each price component in the bid and including all components of the Price Bid, as per Clause 8.15.2.

- 8.21 Selected Bidder: The Bidder who submits the lowest Price Bid shall be the Selected Bidder. The Selected Bidder shall be issued the LoA. OMC reserves the right to negotiate the price with the Selected Bidder before issue of the LoA. The Selected Bidder shall have to acknowledge and accept the LoA by returning a signed copy of the LoA within a period of 15 (fifteen) days of issue thereof, along with submission of the Performance Security, failing which the issued LoA may be cancelled and EMD of the Selected Bidder shall be forfeited by OMC.

8.21.1 Tie-Bidders:

In the event that 2 (two) or more technically qualified Bidders (the “Tie Bidders”) have submitted the lowest identical Price Bids, the Bidder with the highest Technical Marks shall be considered as the Selected Bidder.

- 8.22 Signing of Agreement: Within 15(fifteen) days of receipt of the signed copy of the LoA, along with the Performance Security, the Agreement shall be signed by the Selected Bidder, failing which the EMD shall be forfeited and appropriated by OMC. In such a case, OMC reserves the right to approach the technically qualified Bidder(s) who has submitted the next lowest Price Bid and ask such Bidder(s) to match the L1 price and on acceptance of the same, issue a fresh LoA to such Bidder and proceed with such Bidder in terms of Clause 8.21. Upon signing of the Agreement, the Selected Bidder shall be considered to be the “Successful Bidder”. The pro-forma of the Agreement is provided in Annexure 2A hereof. Post signing of the Agreement, OMC shall issue Service Order(s) to the Successful Bidder.

- 8.23 Performance Security: The formula for calculating the amount of the Performance Security is indicated in the Data Sheet. The Selected Bidder shall submit the Performance Security at the Head Office, OMC upon issue of LoA within a period of <15 (fifteen)> working days. Performance Security shall be in the form of a Bank Guarantee from any Nationalised/ Scheduled Bank invocable at their branch in Bhubaneswar as per the format given in Annexure 8 or in the form of demand draft from a scheduled commercial bank and payable in Bhubaneswar, Odisha. Performance Security in the form of BG should be operable for invocation at any Nationalised/ Scheduled bank at Bhubaneswar.

The Performance Security will be valid for 15 (fifteen) months for each Contractual Year and the Performance Security shall be extended and adjusted for the next Contractual Year upon receiving the letter from OMC to commence the subsequent Contractual Year’s operation

9. Additional Instructions to Bidders

9.1 Site-visit:

- 9.1.1 Bidders may visit the mine and apprise themselves of the site conditions and its surroundings and obtain for itself, on its own responsibility, all information that may be necessary for preparing their Bids.
- 9.1.2 Bidders shall bear their own costs and make their own arrangements required for visiting the Site. OMC will only facilitate their visit.
- 9.1.3 Bidders who are interested to visit the site shall inform the Nodal Officer mentioned in the Data Sheet at least 1 (one) day before scheduled date of the site visit, along with the names and contact numbers of their representatives who would be participating in the site visit.
- 9.1.4 A maximum of 4 (four) representatives from each Bidder shall be allowed to participate in the site visit.

9.2 Pre-bid meeting & Queries

- 9.2.1 Bidders who intend to submit the bid shall only submit pre-bid queries. OEM can submit queries, if any, through bidding entity. Only systems integrators shall be allowed to participate in the pre-bid meeting and queries raised by them shall be addressed
- 9.2.2 The pre-bid queries should be submitted in the format as mentioned Annexure 16 through e-mail in the pdf format as well as editable excel sheet only. No query will be accepted in any other format other than specified and after the last date of receiving queries.
- 9.2.3 A pre-bid meeting shall be organized by OMC; the date and time of the pre-bid meeting is indicated in the Schedule for the Tender. Bidders wishing to attend the pre-bid meeting should inform OMC by email (Refer Data Sheet), along with the names and email ids of the officials/ representatives of the Bidder who would be attending the meeting, at least 1 (one) working days before the pre-bid meeting. OMC shall then send the invite for the pre-bid meeting to the email-ids that OMC would be receiving.
- 9.2.4 However, attendance of the Bidders at the pre-bid meeting is not mandatory. A maximum of two officials/ representatives from each Bidder may attend the pre-bid meeting. All costs of the Bidder related to attending the pre-bid meeting shall be borne by the Bidder.

10. Additional Information on E-tendering process

- 10.1 The e-tendering process shall be held on the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in). All the steps involved starting from hosting of tenders till determination of the Selected Bidder shall be conducted online on the e-procurement portal.
- 10.2 The Bidder will have to accept unconditionally the online user portal agreement which contains the acceptance of all the terms and conditions including commercial and general terms and conditions and other conditions, if any, along with on-line undertaking in support of the authenticity of the declarations regarding the facts, figures, information and documents furnished by the Bidder on-line in order to become an eligible Bidder. No conditional bid shall be allowed / accepted.
- 10.3 The Bidder will have to give an undertaking online that if the information/declaration/scanned documents furnished in support of the same in respect of eligibility criteria are found to be wrong or misleading at any stage, they will be liable to punitive action and this includes forfeiture of EMD and cancellation/termination of contract/Agreement.
- 10.4 The Bidder will submit their Techno-Commercial Bid and Price Bid on-line. The Bidders will have to upload a scanned copy of the Techno-Commercial Bid in Cover-I; the Price Bid is to be submitted in Cover-II.
- 10.5 Procedure for bid submission and payment of Tender Paper Fee and EMD
- 10.5.1 Log on to e-procurement portal: The Bidders have to log onto the e-procurement portal of the Government of Odisha (www.tendersodisha.gov.in) using their digital signature certificate and then search and then select the required active tender from the "Search Active Tender" option. Then the submit button can be clicked against the selected tender so that it comes to the "My Tenders" section.
- 10.5.2 Uploading of the Techno-Commercial Bid and the Price Bid: The Bidders have to upload the required Techno-Commercial Bid and the Price Bid, as mentioned in the tender document.
- 10.5.3 Payment of Tender Paper Fee and EMD: Tender Paper Fee and EMD shall be paid using a single banking transaction. The Bidders have to select and submit the bank name as available in the payment options. A Bidder shall make electronic payment using his/her

internet banking enabled account with designated banks or their aggregator banks. The payment gateways of the designated banks (State Bank of India/ ICICI Bank, HDFC Bank) are integrated with the e-procurement portal. A Bidder having account in other banks can make payment using NEFT/RTGS facility of designated banks. Online NEFT/RTGS payment can be done using internet banking of the bank in which the Bidder holds his account, by adding the account number as mentioned in the challan as an interbank beneficiary.

Only those Bidders who successfully remit their EMD on submission of bids would be eligible to participate on the tender/bid process. The Bidders with pending or failure payment status shall not be able to submit their bid. Tender Inviting Authority, State Procurement Cell, NIC and the designated Banks shall not be held responsible for such pendency or failure.

- 10.5.4 Bid submission: Only after receipt of intimation at the e-procurement portal regarding successful transaction by Bidder, the system will activate the 'Freeze Bid Submission' button to conclude the bid submission process.
- 10.5.5 System generated acknowledgement receipt for successful bid submission: System will generate an acknowledgement receipt for successful bid submission. The Bidder should make a note of 'Bid ID' generated in the acknowledgement receipt for tracking their bid status.
- 10.5.6 Settlement of EMD on submission of bids: The Bank will remit the Earnest Money Deposit on cancellation of bids to respective Bidder's account as per direction received from Tender Inviting Authority through e-procurement system.
- 10.5.7 Forfeiture of EMDs: The forfeiture of EMD on submission of bid of defaulting Bidder may be occasioned for various reasons. In case the EMD Deposit on submission of bid is forfeited, the e-Procurement portal will direct the Bank to transfer the EMD value from the Pooling Account of SPC to the registered account of the Tender Inviting Authority, i.e. OMC.
- 10.6 Deleted
- 10.7 Price Bid: The price bid containing the bill of quantity will be in Excel format (or any other format) and will be uploaded by OMC during tender creation. This will be downloaded by the Bidder and will be used to quote the Price Bid. Thereafter, the Bidder will upload the same Excel file during bid submission in Cover-II. The L1 price will be decided for module as stipulated in the tender. The Price Bid of the Bidders will have no conditions. The Price

Bid which is incomplete and not submitted as per the instructions given shall be summarily rejected by OMC without any further reference to the Bidder.

- 10.8 Modification of bids: Modification of the submitted bid shall be allowed online only before the Bid Due Date. A Bidder may modify and resubmit the bid online as many times as he may wish. Bidder may withdraw only once its Bid online within the end date of Bid submission.
- 10.9 Opening of Techno-Commercial Bids: The Techno-Commercial Bids shall be opened as per the schedule given in the Schedule of Tender. The Techno Commercial bids (Cover-I) will be decrypted on-line and will be opened by the designated bid openers of OMC with their Digital Signature Certificates. The Techno-Commercial Bids shall be opened as per the schedule, irrespective of the number of bids received. Even in case of receipt of single bid, the Techno-Commercial Bid shall be opened for evaluation. In case no bids are received, the tender shall be automatically cancelled with approval of the competent authority of OMC.
- 10.10 Evaluation of Techno-Commercial Bids: The Techno-Commercial Bids shall be evaluated in terms of Clause 8.19. If required, OMC may ask Bidders to provide clarifications on their bid or provide shortfall documents within a period of 3 (three) working days. The Bidders will get this information on their personalized dash board under "Upload shortfall document/information" link. However, no changes in the Price Bid shall be sought, offered or permitted, nor shall the documents sought be related to the EMD or the Tender Paper Fee. No modification of the bid or any form of communication with OMC or submission of any additional documents which are not specifically asked for by OMC, will be allowed and even if submitted, they will not be considered by OMC. Additionally, information shall also be sent by system generated e-mail and SMS, but it will be the Bidder's responsibility to check the updated status/information on their personalized dash board at least once daily after opening of bid. No separate communication will be required in this regard. Non-receipt of email and SMS will not be accepted as a reason for non-submission of documents within prescribed time. The Bidder shall submit the requisite clarifications and the requested documents and in the Upload Shortfall document section of the e-procurement portal within the specified period and no additional time will be allowed for submission of the clarifications/ documents. In case of any failure of the Bidder to submit the requisite documents within the allowed timeframe, OMC shall proceed to evaluate its Techno-Commercial Bid without any further reference to the Bidder.
- 10.11 Based on the evaluation of the Techno-Commercials Bids, the list of technically qualified Bidders shall be prepared and the same shall be uploaded, along with the date and time of opening of Price bid in the portal and such Bidders shall also be informed through system generated e-mail and SMS alert. The Price Bid of such shortlisted Bidders shall be

decrypted and opened on the scheduled date and time by the designated bid openers of OMC with their Digital Signature Certificates. The Bidders may view the price bid opening online remotely on their personalized dash board under the link “Bid Opening (Live)” and can see the Price Bid /BOQ submitted by all shortlisted Bidders.

- 10.12 A comparative statement of the Price Bids shall be generated by the e-procurement system. The same shall be downloaded and will be signed by the officers of OMC opening the Price Bids and submitted to the competent authority of OMC for approval and further necessary action. The comparative statement shall also be viewable to the participating Bidders whose Price Bids were opened. In case of tie bids, the same shall be dealt with in terms of Clause 8.21.
- 10.13 Upon approval and completion of the due process of OMC, the Selected Bidder shall be issued the LoA in terms of Clause 8.21. The LoA shall be sent through registered/ speed post to the office address of the Selected Bidder; a scanned copy of the Agreement/Service Order shall also be uploaded on the e-procurement portal.

Annexure 1: General Conditions of Contract-Services

1. Definitions

In the interpretation of the Contract and the general and special conditions governing it, unless the context otherwise requires:

- 1.1. "Contract Price" or "Contract Value" shall mean the price payable to the Service Provider under the Service Order / Agreement for the full and proper performance of his contractual obligations;
- 1.2. "Service Order" or "Contract" or "Agreement" shall mean the Service Order / Agreement and all attached exhibits and documents referred to therein and all terms and conditions thereof together with any subsequent modifications thereto;
- 1.3. "Site" shall mean the place or places named in the Service Order / Agreement or such other place or places at which any work has to be carried out as may be approved by the OMC;
- 1.4. "Service Provider" or "Contractor" shall mean a firm or company with whom the Service Order / Agreement is placed and shall be deemed to include the supplier in successors (approved by OMC) representatives, heirs, executors, administrators and permitted assignee as the case may be;
- 1.5. "Services" means the services specified in the Service Order which the Service Provider has agreed to supply under Service Order / Agreement;

2. Scope of Services

- 2.1. Scope of Services shall be as defined in the Special Conditions of Contract and Annexure thereto.

3. Instructions, Direction & Correspondence

- A) All instructions and orders to Service Provider shall, excepting what is herein provided, be given by OMC.
- B) All the work shall be carried out under the direction of and to the satisfaction of OMC in accordance with the requirements stated in this tender document

- C) All communications including technical/commercial clarifications and/or comments shall be addressed to OMC shall always bear reference to the Service Order / Agreement.
- D) Invoices for payment against Service Order / Agreement shall be addressed to OMC.
- E) The Service Order / Agreement number shall be shown on all challans / invoices, communications, packing lists, containers and bills of lading (as applicable), etc.

4. Service Order / Agreement Obligations

- 4.1. If after award of the LoA, the Service Provider does not acknowledge the receipt of award or fails to furnish the Performance Security within the prescribed time limit (as the case maybe), the OMC reserves the right to cancel the LoA and forfeit the EMD.
- 4.2. Once a Service Order / Agreement is accepted and confirmed and signed, the terms and conditions contained therein shall take precedence over the Service Provider's bid and all previous correspondence.
- 4.3. The Service Order/ Agreement shall, in all respects, deemed to be and shall construe and operate as an Indian Contract in conformity with the Indian Laws.

5. Modification in Service Order / Agreement

- 5.1. All modifications leading to changes in the Service Order / Agreement with respect to technical and/or commercial aspects including terms of delivery of services, shall be considered valid only when accepted in writing by OMC by issuing amendment to the Service Order / Agreement. Issuance of acceptance or otherwise in such cases shall not be any ground for extension of agreed delivery date and also shall not affect the performance of Service Order / Agreement in any manner except to the extent mutually agreed through a modification of Service Order / Agreement.
- 5.2. OMC shall not be bound by any printed conditions or provisions in the Service Provider's Bid Forms or acknowledgment of Service Order / Agreement, invoices and other documents which purport to impose any conditions at variance with or supplemental to Service Order / Agreement.

6. Use of Service Order / Agreement Documents & Information

- 6.1. The Service Provider shall not, without OMC's prior written consent, disclose any approved plan, drawing, pattern, sample or information furnished by or on behalf of the OMC in connection therewith, to any person other than a person employed / deployed by the Service Provider in the performance of the Service Order / Agreement. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purpose of such performance.
- 6.2. The Service Provider shall not, without OMC's prior written consent, make use of any document or information enumerated in Clause 6.1 except for purpose of performing the Service Order / Agreement.

7. Patent Rights, Liability & Compliance of Regulations

- 7.1. Service Provider hereby warrants that the use of the services delivered hereunder will not infringe claims of any patent covering such service and Service Provider agrees to be responsible for and to defend at his sole expense all suits and proceedings against OMC based on any such alleged patent infringement and to pay all costs, expenses and damages which OMC may have to pay or incur by reason of any such suit or proceedings.
- 7.2. The Service Provider shall indemnify OMC against all third-party claims of infringement of patent, trade mark or industrial design rights arising from the services delivered by the Service Provider.
- 7.3. Service Provider shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the OMC from any claims/penalties arising out of any infringements.
- 7.4. Except for the rights expressly granted under any license by a Party or its sub-contractor under the Contract, each Party shall retain its right in the pre-existing intellectual property and nothing in this Agreement shall be deemed to be a license or transfer of ownership in the pre-existing intellectual property to the other Party

8. Performance Security

- 8.1. The Service Provider shall furnish Performance Security as per the terms and conditions provided in the Bid document.
- 8.2. The Performance Security shall be for due and faithful performance during the period of execution of the services and is liable for forfeiture in the following cases:
- If the successful Bidder fails to undertake the work after issuance of LoA, or

- If the Service Provider abandons the work before its completion or during its extended period, or
 - If the work performed by the Service Provider is not as per the Agreement, or
 - On breach of Service Order / Agreement by the Service Provider.
- 8.3. The proceeds of Performance Security shall be appropriated by the OMC as compensation for any loss resulting from the Service Provider's failure to complete his obligations under the Service Order / Agreement without prejudice to any of the rights or remedies the OMC may be entitled to as per terms and conditions of Service Order / Agreement.
- 8.4. Performance Security shall be extended by the Service Provider in the event of delay in completion of work, as defined in the Service Order / Agreement for any reason whatsoever. OMC's claim period shall remain valid for twelve months after the expiry of the guarantee/warranty/Defect Liability Period or till the satisfactory performance of the objectives of the Service Order / Agreement, whichever is later.
- 8.5. For the avoidance of doubt, it is hereby clarified, that the Performance Security shall not carry any interest.

9. Delivery of Services

- 9.1. Delivery of the Services shall be made by the Service Provider in accordance with terms specified in the Special Conditions of Contract.
- 9.2. The delivery terms are binding and essential and consequently, no delay is allowed without the written approval of OMC. Any request concerning delay will be null and void unless accepted by OMC.

10. Terms of Payment

- 10.1. Details about the method of payment, payment terms, billings, place of payment, etc. under this Service Order / Agreement shall be specified in the Special Conditions of Contract.
- 10.2. All payments shall be made in INR only and shall be made directly to the bank account of the Service Provider.
- 10.3. No advance shall be paid and no letter of credit shall be issued.

- 10.4. Payment shall be released within 30 (thirty) days after receipt of relevant documents complete in all respects.
- 10.5. No interest charges for delay in payments, if any, shall be payable by OMC.
- 10.6. Defective bills shall be returned to the Service Provider within 7 (seven) working days. No payment shall be made on defective/incomplete bills.

11. Subcontracting /out-sourcing/ sub-letting/ Assignment

- 11.1. The Service Provider is not allowed to subcontract, outsource, sub-let or assign the contract and scope of services, either partly or wholly, without the written approval of the designated official from OMC side for the services for which such subletting is sought. However, the OMC management reserves the full right to refuse any such approval to the Service Provider without being bound to provide any reason or rationale for such decision. Provided, nevertheless, that any such consent shall not relieve the Service Provider from any obligation, duty or responsibility under the Service Order / Agreement.

12. Cancellation of Service Order / Agreement

- 12.1. If the Service Provider fails to fulfil the terms and conditions of the Service Order / Agreement which are spelt out in the Tender Document, OMC shall have the right to terminate the Service Order / Agreement and award the total or balance work (if any) to any other Service Provider at the risk and cost of the said Service Provider after giving 30 days' notice to the Service Provider as to why the said work shall not be awarded to another entity at his risk and cost. Further the Service Order/Agreement could be terminated by OMC if:

- i) There is a force-majeure situation,
- ii) Service Provider has given false declaration or document including affidavit,
- iii) There is conflict of interest between OMC & Service Provider during the Service Order / Agreement execution,
- iv) The Service Provider defaults in proceeding with the work as per the milestones and/or in complying with any of the terms and conditions, stipulated in the Service Order / Agreement,
- v) The Service Provider or firm or any of the partner represented by the Service Provider, in the subject Service Order / Agreement is adjudged as Insolvent by the concerned authority and further if the Service Provider has been wound up and dissolved,

- vi) The Service Provider assigns/transfers/sub-lets the entire work or a portion thereof without the approval of the Competent Authority,
- vii) The Service Provider offers to give or agrees to give gift or any other consideration tangible or intangible, as inducement or reward for seeking or offering benefits in the Service Order / Agreement as the case may be,
- viii) A court order or an order of a competent statutory forum is received in respect of the Service under consideration of the Service Order / Agreement.

Termination of the agreement shall not relieve the Service Provider of any obligations which expressly or by necessary implication survives termination. Except as otherwise provided in any provisions of the agreement expressly limiting the liability of the Service Provider, shall not relieve the Service Provider of any obligations or liability for loss or damage to OMC arising out of or caused by acts or omissions of the Service Provider prior to the effective date of termination or arising out of such termination. Even if Service Order / Agreement is terminated/abandoned prematurely, OMC reserves the right to deduct/impose penalties and shall remain indemnified, till such time all or any such claims are suitably addressed. OMC reserves the right to appropriate the Performance Security, as a genuine pre-estimated damages suffered by OMC for the non-performance by the Service Provider. OMC may also impose further penalties on the Service Provider such as holidaying/banning/blacklisting for a specific period of time. In all such cases, the decision of OMC shall be final. This notice shall be in accordance with Clause 12.1.

13. Right to risk for procurement / rendering of services

If the Service Provider fails to fulfill the terms and conditions of the Service Order / Agreement, OMC shall have the right to procure the services from any other party for the execution/ completion of the scope of services under the Service Order / Agreement and recover from the Service Provider all charges/expenses/losses/damages which may be suffered by OMC, at the risk and cost of the Service Provider, after giving 15 (fifteen) days of notice to the Service Provider. This will be without prejudice to the rights of OMC for any other action including termination of the Service Order / Agreement.

14. Force Majeure

14.1. "Force Majeure Event" means any event or circumstances or combination of events or circumstances which:

- A) Are beyond the reasonable control of the Party affected by such event (the Affected Party); and cannot by exercise of reasonable diligence, reasonable precautions and reasonable alternative measures (where sufficient time to adopt

such precautions or alternative measures before the occurrence of such event or circumstances is available), be prevented or caused to be prevented;

B) Materially and adversely affects such Party's performance of its duties or obligations or enjoyment of its rights under this Service Order / Agreement.

14.2. As soon as practicable and in any case within 7 (seven) days from the date of occurrence of a Force Majeure Event or the date of knowledge thereof, the Affected Party shall notify the other Party of the same, setting out the details of the Force Majeure Event.

14.3. If the Affected Party is rendered wholly or partially incapable of performing any of its obligations under this Service Order / Agreement because of a Force Majeure Event, it shall be excused from performance of such obligations to the extent it is unable to perform the same on account of such Force Majeure Event.

14.4. If a Force Majeure Event described above, in the reasonable judgment of the Parties, is likely to continue beyond a period of 6 (six) months or any other period as stipulated in the Bid document, the parties may mutually decide to terminate the Service Order / Agreement or continue the Service Order / Agreement on mutually agreed revised terms.

15. Dispute Resolution

15.1. Any dispute, difference or controversy of whatever nature howsoever arising under, or out of, or in relation, to this tender or the Service Order / Agreement (including its interpretation) between OMC and the Service Provider, and so notified in writing by either party to the other party shall, in the first instance, be attempted to be resolved amicably and the parties agree to use their best efforts for resolving all disputes arising under or in respect of this tender promptly, equitably and in good faith. In the event of any dispute between the parties, it is agreed that a discussion shall be held between the Service Provider and OMC within 7 (seven) days from the date of reference to discuss and attempt to amicably resolve the dispute. If such meeting does not take place within the 7 (seven) day period or the dispute is not amicably settled within 15 (fifteen) days of the meeting, the dispute, if referred to, shall be decided by the Civil Court of competent jurisdiction at Bhubaneswar. There shall be no arbitration between the Parties. The provisions of Arbitration & Conciliation Act, 1996 as amended from time to time, shall have no application to the present work.

15.2. Governing law and jurisdiction: This Service Order / Agreement shall be construed and interpreted in accordance with and governed by the laws of State and Central

Government in force in India. The Courts at Bhubaneswar shall have exclusive jurisdiction over all matters arising out of or relating to this Service Order / Agreement.

16. Governing Language

The Service Order / Agreement shall be written in English language as specified by the OMC in the Instruction to Bidders. All literature, correspondence and other documents pertaining to the Service Order / Agreement which are exchanged by the parties shall be written in English language. Printed literature in other language shall only be considered, if it is accompanied by an English translation. For the purposes of interpretation, English translation shall govern and be binding on all parties.

17. Notices

Any notice given by one party to the other pursuant to the Service Order / Agreement shall be sent in writing or by email. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

18. Permits & Certificates

- 18.1. Service Provider shall procure, at his expense, all necessary permits, certificates and licences required by virtue of all applicable laws, regulations, ordinances and other rules in effect at the place where any of the work is to be performed, and Service Provider further agrees to hold OMC harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinances or other rules.

19. General

- 19.1. The Service Provider shall be deemed to have carefully examined all Service Order / Agreement documents to its entire satisfaction. Any lack of information shall not in any way relieve the Service Provider of his responsibility to fulfill his obligation under the Service Order / Agreement documents.
- 19.2. The General Conditions of Contract (GCC)-Services shall apply to the extent that they are not superseded by provisions of other parts of the Special Conditions of Contract.
- 19.3. Losses due to non-compliance of Instructions

Losses or damages occurring to the OMC owing to the Service Provider's failure to adhere to any of the instructions given by the OMC in connection with the contract execution shall be recoverable from the Service Provider.

19.4. Recovery of sums due

All costs, damages or expenses which the OMC may have paid, for which under the Service Order / Agreement, the Service Provider is liable, may be recovered by the OMC (he is hereby irrevocably authorized to do so) from any money due to or becoming due to the Service Provider under this Service Order / Agreement or other Service Orders / Agreements and/or may be recovered by action at law or otherwise. If the same due to the Service Provider be not sufficient to recover the recoverable amount, the Service Provider shall pay to the OMC, on demand, the balance amount.

20. Liability and Indemnity

20.1. Service Provider shall indemnify, defend and hold OMC harmless against:

- a) any and all third party claims, actions, suits or proceedings against OMC, for any loss of or damage to property of such third party, or death or injury to such third party, arising out of breach by the Service Provider of any of its obligations under the Service Order / Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of the Service Order / Agreement, or breach of statutory duty on the part of OMC, its suppliers and Service Providers, employees, servants or agents; and
- b) any and all losses, damages, costs, and expenses including legal costs, fines, penalties and interest actually suffered or incurred by OMC from third party claims arising by reason of breach by the Service Provider of any of its obligations under this Service Order / Agreement, except to the extent that any such losses, damages, cost & expenses including legal costs, fines, penalties and interest (together to constitute "Indemnifiable Losses") have arisen due to negligent act or omission breach of the Service Order / Agreement, or breach of statutory duty on the part of OMC, its suppliers or Service Providers, employees, servants or agents or any of the representations; and
- c) to the extent of the value of free issue materials to be issued till such time the entire Service Order / Agreement is executed and proper account for the free issue materials is rendered and the left over / surplus and scrap items are returned to OMC. The Service Provider shall not utilize OMC's free issue materials for any job

other than the one contracted out in this case and also not indulge in any act, commission or negligence which will cause / result in any loss/damage to the OMC and in which case, the Service Provider shall be liable to OMC to pay compensation to the full extent of damage / loss and undertake to pay the same.

- 20.2. OMC remains indemnified (even if the Service Order / Agreement ends pre-maturely) towards all or any obligations due to OMC by the Service Provider and shall continue to remain in force till such time all or any such claims are suitably addressed.

21. Publicity & Advertising

Service Provider shall not without the written permission of OMC make a reference to OMC or any Company affiliated with OMC or to the destination or the description of goods or services supplied under the Service Order / Agreement in any publication, publicity or advertising media.

22. Blacklisting

Blacklisting of a business concern/entity or supplier may be resorted to in following cases:-

- i) If the Proprietor or Partner or Director of the business concern/entity is convicted by a Court of Law, following prosecution under the normal process of Law for an offence involving moral turpitude in relations to business dealings;
- ii) If security consideration of the state i.e. any action that jeopardize the security of the State.
- iii) If there is justification for believing that the Proprietor or Partner or Director of the Concern/entity has been guilty of malpractices such as bribery, corruption, cheating, fraud and tender fixing etc.
- iv) If the business concern/entity refuses / fails to return the OMC's dues without adequate cause;
- v) If the business concern/entity is blacklisted by any Department of the Central Government/ State Government/Central PSU/State PSU.
- vi) If the business concern/entity is a concern/entity evader of Central / State taxes / duties for which OMC has received notice from the concerned department of Central/ State Govt.
- vii) If violation of important conditions of contract/agreement.
- viii) If submission of false/fabricated/forged documents for consideration of a tender

23. Insurance

- 23.1. The Service Provider will obtain an insurance policy covering all risks, damages, loss etc. for all equipment / supplied items under the contract. The insurance cover in favour of employer shall be from the start date to the end of 2 months post Go Live event. Insurance shall cover the following.
- I. loss of or damage to the works, plant and materials
 - II. loss of or damage to Equipment
 - III. loss of or damage of property (except the Works, Plant, Materials and Equipment) in connection with the Contract and
 - IV. personal injury or death

The Service Provider shall cover and maintain all suitable insurance for it's manpower, vehicle and equipment deployed for this work, throughout the contract period.

- 23.2. Policies and certificates for insurance shall be delivered by the Service Provider to the Officer-in-Charge/Head of Department or his nominee for the approval before the start date of the Contract. All such insurances shall provide for compensation to be payable in the types and proportions of currencies required to rectify the incurred loss or damage.
- 23.3. If the Service Provider does not provide any of the policies and certificates required, OMC may take insurance which the Service Provider should have obtained and provided and recover the premiums from payments otherwise due to the Service Provider.
- 23.4. OMC shall insure the equipment only after 2 months post go-live of the project. Until then, the Vendor is expected to bear the same.

24. Statutory and Legal requirements

- 24.1. The Service Provider shall comply with all the statutory and legal requirements and requirements for obtaining license under the Contract Labour (Regulation and Abolition) Act 1970 and shall bear all necessary expenses in this regard.
- 24.2. The Service Provider shall abide by the applicable statutory provisions on minimum wages, payment of wages, EPF, ESI, gratuity, retrenchment, leave and leave encashment, health care, uniform and compensation to its employees and workmen.
- 24.3. The Service Provider shall not take any action in relation to handling of its personnel which may adversely affect the existing labour relations of OMC. The Service Provider has to maintain close liaison and cordial relations with the local people and the unions.

25. Compliances to policies and standards adopted or to be adopted by OMC

25.1. The Service Provider shall abide by and ensure compliance with the following policies and standards adopted or to be adopted by OMC:

- i) Social accountability standard SA8000 standard – details available at the website. OMC has adopted this certification standard. Towards this, the Service Provider shall ensure that all certification requirements applicable to it are met by it at its own costs.

25.2. ISO certification: OMC is an ISO 9001: 2000 certified organization. The Service Provider shall ensure that all certification requirements applicable to it are met by it at its own costs and to the satisfaction of OMC and the certifying authority.

26. Safety

26.1. The Service Provider shall comply with all the stipulations and requirements of DGMS as well as with other applicable laws concerning mine safety and as applicable and relevant to its scope of services. The Service Provider shall at all times be responsible to carry out all operations as per the extant applicable laws. The Service Provider shall also be responsible for complying with the statutory obligations of the state Pollution Control Board and other environmental and safety regulations. The Service Provider shall ensure that its operations create no hazards or disturbance for the surrounding inhabitants and areas.

26.2. OMC may from time to time audit the safety practices employed by the Service Provider and the Service Provider shall comply with the recommendations/ directions made by OMC as a result of such audit.

26.3. During the course of the contract period, if any accident occurs whether major or minor in which the Service Provider or its employees are involved or are responsible, the Service Provider shall immediately inform OMC without any delay.

26.4. The Service Provider shall indemnify OMC from any liability falling on OMC due to any accident, whether minor or major, or by any act of commission/omission by the Service Provider or by its representatives or by its employees. If OMC is made liable for any such claim by the court of law or any other authority, the same shall be reimbursed to OMC by the Service Provider as if OMC has paid on their behalf. The same shall be adjusted from the invoices payable by OMC to the Service Provider, if not paid within a period of 30 (thirty) days of such payment being made by OMC.

Annexure 2: Special Conditions of Contract

1. General

These Special Conditions of Contract delete, amend or add to the clauses in the General Conditions of Contract. In the event of an inconsistency, these Special Conditions of Contract shall supersede or take precedence over the General Conditions of Contract to the extent of that inconsistency.

2. Background

- 2.1. As part of the 5T initiative, OMC is currently planning to introduce an exclusive and comprehensive solutions for Logistics Management along with Command-and-Control Center. These solutions are expected to streamline and track various activities related to sales and production across the various mines of the organization.
- 2.2. The system shall replace most of the existing manual processes/activities through a digital workflow mechanism.
- 2.3. Logistics Management System will encompass device agnostic web-application to capture operations, a command control center to monitor mining activities and robust location specific IT infrastructure.
- 2.4. OMC expects the Logistics Management System to be developed/configured the available product and customized as per requirement of OMC for sales evacuation & production shifting and ensure smooth implementation with the best practices of application development.

3. Project Objectives

One of the key objectives of LMS & CCC project is to develop robust ICT infrastructure that supports digital applications and ensures seamless steady operations of applications for LMS & CCC to achieve the following:

- a. **Real time tracking and monitoring** from mineral production to despatch processes
- b. **Better access control to authorized vehicle** only inside the mines, stockyard and parking area
- c. **Faster throughput for optimal weighbridge utilization**
- d. **Improved safety standards** within stockyard and adjoining premises

4. Overview of LMS

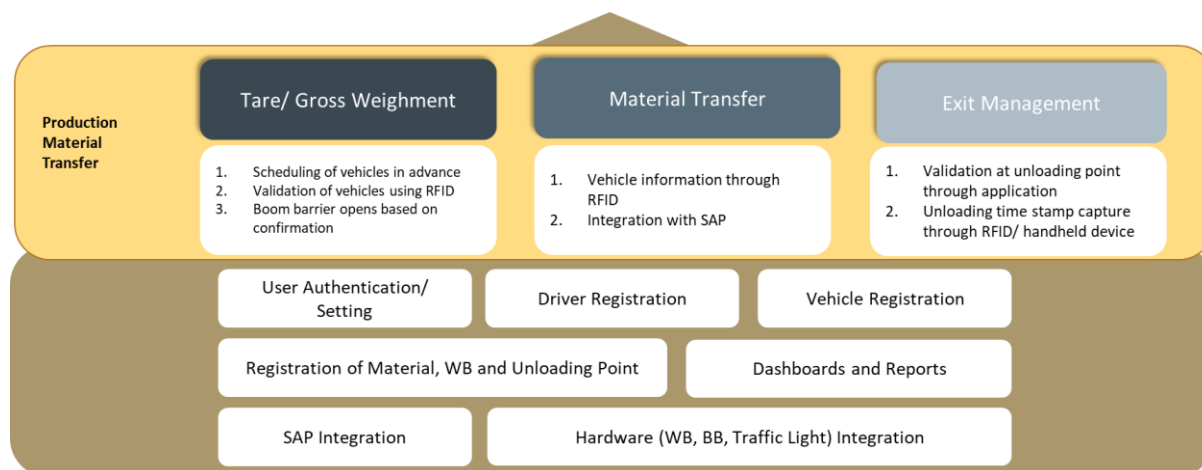
Logistics Management System (LMS) is expected to be application (standalone/ web based), which will be used to manage Sales, Transportation and Production activities at various mines of OMC. Software will manage daily IN/Out activity with proper validation before allowing vehicle for any activity, weigh bridge operation, to capture detailed vehicle movement data, keep track of daily sales data, daily production data etc. Further it will help corporation to get detailed live report instantly for further analysis.

OMC is planning to install different servers at different locations of mines to manage its daily activity. Each mine has these important elements/ locations:

- Entry and Exit Gate
- Tare and Gross weighment at Sales weighbridges
- Tare and Gross weighment at Production weighbridges
- Stock yard
- Parking yard

LMS shall be implemented for both Production and Sales of Ore Produced and dispatched.

Functional Modules (s/w) of LMS Project – Production



Functional Modules (s/w) of LMS Project – Sales



5. Overview of Command Control Centre (CCC)

In addition to LMS, there shall be location specific Command Control Center (CCC) which will have the following

- Video Management System for 24X7 CCTV Surveillance
- Public Address System
- Emergency Call Boxes
- Network Equipment Monitoring
- Speed Violation Detection Mechanism
- Incident Management Mechanism
- Alert Mechanism

6. Scope of work, service requirements including technical parameters

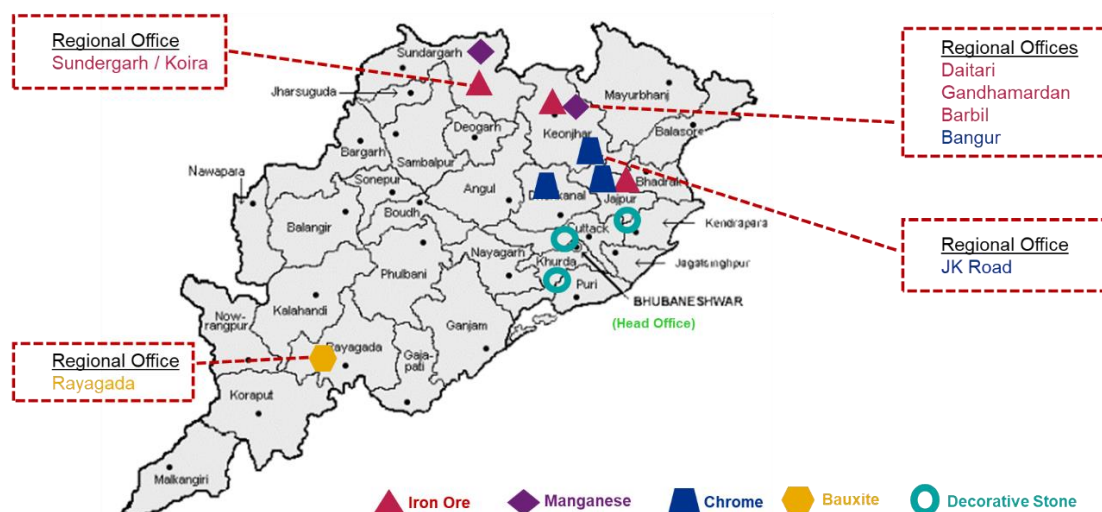
6.1. Location for Implementation of LMS & CCC

LMS and CCC has to be implemented at 13 (thirteen) of the operating mines of OMC. The location details of these mines are as follows:

S No.	Location	Regional Office	District
1	Kurmitar	Koira	Sundergarh
2	Guali	Barbil	Keonjhar
3	Jilling	Barbil	Keonjhar
4	Apahatu	Barbil	Keonjhar
5	Dubuna	Barbil	Keonjhar

S No.	Location	Regional Office	District
6	Kodingamali	Rayagada	Koraput
7	Tiringpahad	Barbil	Keonjhar
8	Uchabali	Barbil	Keonjhar
9	Banspani	Barbil	Keonjhar
10	Khandbandh	Barbil	Keonjhar
11	South Kaliapani	Jajpur Road	Jajpur
12	Sukrangi	Jajpur Road	Jajpur
13	Bangur	Bangur	Keonjhar

Areas of Operation



6.2. Broad Scope of Work

The SI's scope of work shall include but is not limited to the following broad areas. Detailed Functional Scope, Technical Scope along with minimum specification for hardware components for implementation of LMS and CCC has been provided in Annexure 19

Brief details of each of these broad areas have also been outlined in subsequent sections of this document.

6.2.1. IT Infrastructure Upgradation

The System Integrator (SI) shall supply, install, test and commission all hardware equipment as required for implementation of LMS and CCC. Indicative BoQ of hardware equipment along with Technical Specifications has been provided in Annexure 19.

SI shall assess the OMC's existing IT Assets and Networks and accordingly actual BoQ shall be finalized taking into consideration the existing hardware equipment during SRS and DBR report..

All 11 sites considered for Network Management System are standalone sites as of now and centralized monitoring is not part of current scope but the system should be designed so that it could be integrated with the centralized system when introduced in the future.

The SI shall make its own arrangement at mining sites for storing the Supply procured by them during Implementation phase.

6.2.2. Logistic Management System: Development/ Customization, Configuration, and Implementation

- a. The SI with Commercially off the shelf (COTS) product is expected to Customize, Configuration and Implement the Logistics Management System. In this case OMC shall have the access to the COTS system during the entire period of the contact. OMC shall be the owner of the business data and the customized code.

On the other hand, the SI without a COTS product, will have to Develop, Configure and then Implement a Logistics Management System for OMC. OMC shall have the exclusive ownership of the Source code and the business data. The functional and technical scope of the Logistics Management System has been explained (though indicative) in Annexure 19. OMC may add, remove, or modify the requirements and the same shall be included in the functional scope during SRS Finalization & sign-off.

OMC shall be owner of the software product developed or COTS product customized for lifetime.

- b. The LMS software shall be implemented at the mining site mentioned in Clause 6.1 of SCC, also shall have the ability to be extended for other new mines of OMC if required.
- c. The SI will carry out the necessary customization/configuration while deployment in the respective mines in accordance with the terms & conditions of this Contract.
- d. OMC expects about 150-200 users with 30% of them concurrently logged in and using the system (respective local servers) for each cluster.

- e. Overall, the Logistics Management System is expected to bring more visibility through better collaboration among various stakeholders across the sections and locations of OMC.
- f. The Logistics Management System shall have the following characteristics / capabilities:
 - i) Must have all the required modules for tracking and managing production and ore dispatch (sales) activities
 - ii) Must be easy to use, intuitive and user friendly
 - iii) The data shall reside within the geographical boundary of India.
 - iv) The System must be compatible with the latest versions of web browsers viz. Google Chrome, Firefox, Microsoft Edge, Safari etc.
 - v) Must have a well-defined workflow mechanism
 - vi) Should have the ability to scale up with additional requirements around users, sections, features, mines etc. as part of future enhancements
 - vii) Should have the ability to extend, modify and integrate with other application(s) in the future without a reliance on single company/vendor/team
 - viii) Must have defined, genuine licensing model for the software used in the development of the application.
 - ix) Have training manuals and structured training sessions for various categories of user and necessary stakeholders
 - x) Specific users from OMC must be able to login to the portal using unique User-ID and Password.
 - xi) As an enhanced security measure, there must be role-based access to the System. User types may be admin, user etc. Admin users shall be capable of creating new users and make changes in the master if required.
 - xii) The System must have real time monitoring tools with Dashboard for higher level supervision at OMC.
 - xiii) The System must have facility for customization of MIS reports and statistical data of the key performance indicators and other necessary information as required by OMC users from time to time. The MIS reports shall have facilities like filtering and sorting. The MIS reports generated must be downloadable in at least .csv, .xls, .xlsx, .pdf formats.
 - xiv) The designing and structuring of database must be in such a way that the information collected shall meet all the requirement of OMC for future use without any data loss.

- g. OMC shall monitor the project including supply, implementation and commissioning of LMS and Command Control Centre (CCC) on regular basis. The performance of Service Provider shall be evaluated accordingly.

6.2.3. Implementation of Command-and-Control Center (CCC)

a. The CCC shall serve as a :

- i) centralized decision-making center which supports and strengthens coordination in response to incidents/ emergency situations.
- ii) central information, communication, incident management hub.
- iii) centralized monitoring and decision-making hub for managing equipment, devices, resources, and assets.

b. CCC will enable OMC's stakeholders in following

- i) Effective decision making
- ii) Delivering effective governance by aggregating various data feeds from sensors and systems
- iii) Providing interface/ dashboards to generate alert and notifications in real time
- iv) Quick and effective response to emergency or disaster situation

c. The Application(s) at CCC shall have the following characteristics / capabilities:

- i) Must be easy to use, intuitive and user friendly
- ii) The data shall reside within the geographical boundary of India
- iii) The System must be compatible with the latest versions of web browsers viz.
- iv) Google Chrome, Firefox, Microsoft Edge, Safari etc.
- v) Must have a well-defined workflow mechanism
- vi) Should have the ability to scale up with additional requirements around users,
- vii) sections, features, mines etc. as part of future enhancements
- viii) Should have the ability to extend, modify and integrate with other application(s) in the future without a reliance on single company/vendor/team
- ix) Have training manuals and structured training sessions for various categories of user and necessary stakeholders
- x) Specific users from OMC must be able to login to the portal using unique User-ID and Password.
- xi) As an enhanced security measure, there must be role-based access to the System. User types may be admin, user etc. Admin users shall be capable of creating new users and make changes in the master if required.

- xii) The System must have real time monitoring tools with Dashboard for higher level supervision at OMC.
- xiii) The System must have facility for customization of MIS reports and statistical data of the key performance indicators and other necessary information as required by OMC users from time to time. The MIS reports shall have facilities like filtering and sorting. The MIS reports generated must be downloadable in at least .csv, .xls, .xlsx, .pdf formats.
- xiv) The designing and structuring of database must be in such a way that the information collected shall meet all the requirement of OMC for future use without any data loss.

d. Building for CCC & Its Interiors

- i. The permanent building for command control center (CCC) shall be constructed by OMC. In case, the permanent building is not ready before “Go-Live”, OMC may ask Agency to start CCC in temporary building provided by OMC. And after the permanent buildings comes up, the Agency has to shift the hardware and other infrastructure to the New Buildings. If required, extra material for shifting shall be estimated mutually and confirmed by OMC. The charges for the same shall be paid at the rate quoted in Price Bid (as per Annexure 4) for supply. In case of shifting, vehicle shall be provided by OMC for transportation of materials.
- ii. Interiors: The CCC interiors shall be done by SI at its own cost. The CCC interiors shall be state of the art adhering to various best practices norms for control center wherein the scope includes designing, engineering, supply & installation of 24X7 Critical Control Room Interiors. It shall be designed properly in terms of Aesthetics, Ergonomics and Functionality. Various aspects should be considered while designing Control Room area to create ideal workplace, considering physiological aspects such as line of sight and field of vision and cognitive factors such as concentration and perceptivity as per latest ISO Ergonomic Norms. The following norms shall be adhered to: -
 - (a) The entire wall paneling, and partition system must be 100% modular with type self inter lockable panels.
 - (b) Quality Certifications for Control Room (Wall Paneling/ Partition & Ceiling) -
 - (i) ASTM standards, as applicable from time to time, for Wall Paneling & Partition tiles.
 - (ii) Compliant to IS and ISO standards.
 - (iii) The proposed interior system should be modular, scalable & Sustainable and shall comply to ISO 11064 (Ergonomic Design of Control Centers).
 - (iv) All material / finished components should be rugged enough to handle 24/7, 365 days VOC's (within permissible limits) working environment.

Detailed specification is provided in Annexure 19

Command Center Interior (Approximate Area: 470 Square Feet) (“Design, Supply & Installation”)

6.2.4. Annual Support of the Logistics Management System & CCC

The Service Provider / SI shall carry out all support related services for the Logistics Management System & CCC on a real-time basis for a period of 5 (five) years (“**Contract Period**”) starting from 2 (two) months beyond the date of achievement of “**Go-Live**” of first mines. AMC may be extended year wise (annually) based on the satisfactory performance and at the sole discretion of OMC.

6.3. Key Activities for Implementation of LMS and CCC

During the development and implementation process of Logistics Management System & CCC, the respective Agency shall carry out the following:

6.3.1. Prepare a Project Plan and Time schedule

6.3.2. Study of the AS IS Process shall include activities as following:

- a. Study the activities at Mines (sales and production) and thereby mapping of all the upcoming tasks as per the requirement of OMC.
- b. The Design Basis Report (DBR) document shall be prepared considering all the designing and installation of hardware.
- c. Map the approval, reminder, and escalation matrix along with the responsible personnel
- d. System Requirement Specification (SRS) & Design Basis Report (DBR) document shall be created and sign-off shall be taken from OMC

6.3.3. Carry out the necessary Customization /Configuration/Development

- a. Development/ Customization/ Configuration should be done in a manner that it gives a reasonable assurance of upward compatibility with future versions/ feature rollouts of the application
- b. All the Development/ Customization/ Configuration must meet the requirements of security, performance, ease of use for operations, administration and management.

6.3.4. Carry out Testing (Functional Testing, Integration Testing and UAT)

Agency shall conduct testing for the system, application and any customized components. Testing shall include, but not limited to the following (Agency may propose others, based on their strategy / methodology):

- i) Unit Testing

- ii) System Integration Testing
- iii) Facilitation of User Acceptance Testing (UAT)

6.3.5. Create Training plan and provide training to users

- a. Agency shall provide training to all task Users, Section heads, contractual supervisors and other personnel involved in the activities related to Logistics Management System& CCC/ its impact/ workflow/ any other activities required and the usage of software for ensuring effective compliance and tracking
- b. Agency shall impart Functional and technical training to business & IT staff in operating and using the System including database and application software.
- c. The mandatory training (functional and technical) to the OMC business and IT team shall be to the satisfaction of the OMC management. In case the training is found to be unsatisfactory, the training duration shall be suitably extended at no extra cost to OMC. The training shall be conducted in the OMC premises.
- d. The test environment required for the training must be set up by the Agency before the training commences. However, the Systems (Desktop Computers or Laptops) for UAT shall be arranged by OMC.

6.3.6. Prepare User Manual documents for both Systems

The Agency shall provide the user manual for all the functionality in the Logistics Management System & CCC and the same shall be shared with OMC after mutual discussion and finalization.

6.3.7. Manage Go-Live event

- a. The Agency shall provide a detailed list of specific activities for go live event.
- b. The project plan submitted by the Agency must ensure that the activities are completed before the event. The go-live event will be dependent on the successful UAT sign-off.

6.3.8. Provide Post Go-Live support (onsite)

- i) Post successful “Go-Live” of Logistics Management System and CCC, the Agency shall also provide hand holding onsite support for a period of 2(two) months from the dates of achievement of the corresponding Go-Lives. During these periods, the Agency shall resolve all implementation, operational and production issues, if any. The post Go-Live support will address all user level queries, fixing bugs, incorporation of new requirements owing to legal, statutory and policy changes, upgrades, security, etc.
- ii) For this purpose, the Agency is required to provide the detailed processes to be followed for logging requests, assigning requests to specific individuals, recording resolution, tracking overall time taken for resolution, etc. The Agency must also

submit an escalation matrix as part of deliverable. The Agency would also need to provide a detailed support plan with defined SLA's for issues reported by OMC, an escalation matrix for resolution as well as a plan to undertake any change requests that might be considered important.

6.4. Change Adaptability:

- a. Implementation of new or changed business processes will affect users in OMC and require change in the functional processes followed. During implementation, the Agency will help in creating and maintaining effective communication and change management vital to the successful adoption of the new or changed processes.
- b. The Agency shall ensure change management to ensure the successful implementation and usage of the Logistics Management System by the officials of OMC.

6.5. Sharing of Source code

- a. The implementing agency shall share the Error-free complete Source Code for Product Developed for OMC OR Error-free Customized Codes for COTS product as per the actual running software complete in all respects along with source code of DLLs and other Libraries before release of last payment for development
- b. The implementation agency can't use the technical details (source code or other artefacts like design documents, test cases etc.) else-where (outside OMC)

6.6. Indicative list of documents as deliverable

- I. Design Basis Report
- II. High level design document
- III. Low level design document
- IV. Training documents
- V. Application Test Report
- VI. Project hand-over document

6.7. Data Encryption

The applicant's confidential data (majorly but not limited to Executive ID No., Email ID, compliance and case updation etc.) must be stored in encrypted form in the database. However, the data must be retrievable by OMC in decrypted form and in plain text.

6.8. Delivery Period and Delivery Milestones

The Agency shall complete the development/ customization and configuration of the Logistics Management System & Implementation of CCC as well as achieve “Go-Live” for all the mines within a timeframe as mentioned below from the date of issue of LoA.

Sl. No.	Milestone	Time for Completion (Weeks)
1	Project Start	T= Date of Agreement
2	Study of the AS IS Process and process mapping	T + 1
3	SRS and DBR Finalization & Sign-off	T + 8
4	Procurement of Hardware	T + 20
5	Software Implementation (Design, Develop, Customize, Integration, Test)	T + 36
6	H/W Installation including CCC and Integration with S/W for process automation	T + 48
7	Development of Training Plan (Mine wise) and training material Note: Priority of the Mines in which the training shall be imparted to be fixed during development of the training plan (Training may be imparted in different waves/phases)	T + 52
8	UAT users & UAT sign off	T + 54
9	Training to all other stake holders (wave/phase wise)	T + 58
10	Go-Live of all Mines	T+ 60 Weeks
11	Preparation & submission of User Manual	T+60 Weeks

Note: The above schedule is indicative. The detailed time schedule for respective mines shall be finalized in joint consultation between the Agencies and OMC after submission of “AS IS” study report. However, the overall timeline of 60 weeks for achievement of “Go-Live” of all mines for the Logistics Management System including CCC shall remain fixed.

6.9. Annual Support of the Logistics Management System & CCC

6.9.1. Annual Support shall include

- I. Patch upgrade
- II. Feature rollout

- III. Support in product configuration: Agency to provide both Onsite and Remote support, as may be required, to resolve all implementation, operational and production issues.
- IV. User Trainings to all the relevant stakeholders (existing and new users)
- V. Remedial Support in case OMC end-users encounter difficulties with the Logistics Management System.
- VI. O&M of all equipment, systems and supplies done for implementation of Go Live. Agency to maintain all equipment and system in working condition and shall replace if required at its own cost. And shall maintain adequate inventory of critical equipment for any replacement requirements.
- VII. Insurance of all equipment and system supplied by Agency
- VIII. In case of printers, the consumables like papers, ink etc. shall be reimbursed as per actuals by OMC.

6.9.2. All sites where LMS & CCC have to be implemented are lightening prone area. The Agency shall take all care to avoid any damages by lightening. And if any such incident occur, Agency to replace the equipment or system damaged at its own cost

6.9.3. The Agency shall maintain inventory of Critical Spare Parts to minimize downtime and meet SLA as per requirement

6.9.4. Updates will be installed by Agency's staff or automated processes. Updates will be scheduled to minimize disruption to OMC's end users. All updates will be installed within 30 days of public release. Neither Agency nor OMC shall unreasonably delay installation. Updates to related documentation will be provided in electronic form.

6.9.5. The Logistics Management System including the availability of services & support must ensure 98% Uptime. The system should be capable of generating reports regarding down time/complaint resolution time and the period of non-availability should be clearly separated with specific reason like network down time, server down time, manpower service failure, etc. Uptime shall be

$$\text{Up-time} = \text{MTBF} / (\text{MTBF} + \text{MTTR})$$

Where MTBF = Mean Time between Failures, MTTR = Mean Time to Repair.

Uptime	Maximum allowed downtime per year
98%	175.2 hours

97%	262.8 hours
96%	350.4 hours
95%	438 hours
94%	525 hours

The

formula

mentioned here shall be applicable wherever there is NO other mutually agreed tools or methodology to calculate the downtime and uptime. However, OMC may consider any system generated data for the same.

- 6.9.6. Under Remedial Support, the Agency shall respond and resolve OMC's requests/issues. The Maximum Response Time and Maximum Resolution Time depending upon the type of Issue are mentioned below:

Issue Category	Description	Maximum Response Time (calculated from the time of logging of ticket)	Maximum Resolution Time (calculated from the time of logging of ticket)
Critical	Critical issue is defined as one that produces an emergency situation in which the Logistics Management System or CCC is substantially or completely non-functional or inoperable for normal business activities.	1 Hours	4 Hours
Non-Critical	Non-Critical issue is defined as one that produces a detrimental situation in which the Logistics Management System is usable, but materially incomplete. Performance (throughput or response) of the Logistics Management System or CCC degrades substantially such that there is a severe impact on use under reasonable loads; One or more mainline functions or commands is inoperable; or the use is otherwise significantly impacted.	2 Hours	24 Hours

Note:

- a) The Agency must have a dedicated Support Center platform having dedicated customer care number to enable issue reporting by OMC.
- b) The categorization of issues into Critical and Non-Critical shall be decided by OMC/ designated officer of OMC.

6.9.7. O&M Manpower

As a part of Annual Support Service, the SI shall maintain manpower at different location as per below mentioned table

Sl.No	Location	Manpower
1	Kurmitar	4
2	Guali	5
3	Jilling	5
4	Dubuna	4
5	Kodingamali	2
6	Tiringpahad	2
7	Uchabali	2
8	Banspani	2
9	Khandbandh	2
10	South Kaliapani	5
11	Bangur	2
	Total Count	35

Apart from this the SI has to deploy one project manager during annual support services.

6.10. Change Request

6.10.1. Change Request Management

- a. The Agency shall cater to Change Request tasks that may be intimated by OMC throughout the Contract Period after go-live. Only those tasks shall be covered under Change Request Management where the efforts to carry out those tasks are expected to span more than 1(one) man-day, which shall be mutually determined by OMC and the Agency. The basic functionalities of the Change Request tasks are as follows:
 - I. Functional changes in the application
 - II. Development of new modules/Form/Report in the existing Software
 - III. Changes in the Core application framework

IV. Integration with any new system

- b. The Change Request Management shall also cover the provision of extending the Logistics Management System to cover new mines of OMC that may become operational going ahead.
- c. The process to address the change request shall be as follows:
 - i. Documenting change request requirement: The details of scope of change will be analyzed and documented by OMC and intimated to the Agency. The Agency will submit the effort (in terms of number of man-days for both on-site and off-site professionals) and timeline for incorporation of changes in the application.
 - ii. Approval or disapproval of the Change Request: The Project team of OMC will discuss with the Agency and approve or disapprove the Change Request submitted by the Agency.
 - iii. Implementation of the Change Request: After approval of the Change Request, the Agency shall start the process of incorporation of changes in the application. The change will be implemented in accordance to the agreed cost, effort and schedule.
 - iv. Validating Change Request implementations - The end user group/Project team of OMC will review the changes incorporated in the application and confirm on the same

6.10.2. Change Request Charges

The Change Request amount shall be calculated based on quoted man-day rate of professionals and the approved effort for the specific Change Request. 100% Payment shall be done after satisfactory completion of Change Request tasks. The Agency will submit all the invoices in duplicate to the IT Section, Head Office

7. Change in Scope / Variation in Quantities

Based on the assessment of requirements of LMS & CCC System, OMC can add or remove Supply items or its quantities. For any change in quantities for existing supply of materials, manpower and equipment, the quoted or negotiated price of the tender shall be final. However, for addition of new supply equipment which has not been envisaged in Tender, the charges for the same shall be decided mutually.

8. Liquidated Damages / Penalty

8.1. Delay in achievement of Go-Live

- 8.1.1. If the selected agency fails to achieve Go-Live of the Logistics Management System within the corresponding Delivery Period and any extension thereof, unless such failure is due to force majeure situation or due to OMC's default, liquidated damages (LD) shall be imposed by OMC on the selected agency. However, imposition of LD shall be without prejudice to the other remedies available to OMC under the terms of the Agreement.
- 8.1.2. In case of delay in achievement of Go-Live of the Logistics Management System, the LD shall be calculated as 2% (two per cent) of the total value of the Supply, installation and Implementation Charges of the Logistics Management System (excluding GST) for that mine in respect of which the delay in delivery has occurred for each month or part thereof of delay, subject to a maximum value of 10% of the value of the Supply, installation and Implementation Charges of Logistics Management System (excluding GST) for that particular mine. GST on LD shall be recovered in addition to the LD amount

8.2. Service Level and Penalty

The operations of the installed and commissioned system are critical and requires adherence to the below mentioned service levels for individual components specified below. The decrease in service levels will be monitored and the penalties will be imposed based on severity, unless such failure is due to force majeure situation or due to OMC's default or Periodic/Scheduled maintenance. However, imposition of penalty shall be without prejudice to the other remedies available to OMC under the terms of the Agreement. This will be determined through the decrease percentage in Service Levels as provided herewith below.

S. No.	Slabs	Service Level Slabs	Applicable Penalty Rate
1.	Slab I	Less than SLA Requirement as per tables and up to 95%	Base penalty as per table below
2.	Slab II	Less than 95% up to 90%	Base Penalty plus 20% of the Base Penalty
3.	Slab III	Less than 90% up to 85%	Base Penalty plus 40% of the Base Penalty

4.	Slab IV	Less than 85%	Base Penalty plus 60% of the Base Penalty
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There shall be 4 slabs as mentioned above. Base price of the penalty will be applicable for Slab I. Thereafter, 20% increment will be applicable for each subsequent slabs. The calculation of penalty for each of the slab will be as per the methodology provided in the tables below based on the penalty rate as per slabs provided herein above. These slabs will be applicable for the Service Levels provided below wherever there is requirement of availability of device and applications measured in percentage. These will not be applicable for cases in which the SLA is not measured in percentages like report submissions, repair time, etc. The SLA penalty calculation shall be undertaken / conducted quarterly.

i. Public Address System- Availability

“Availability”: When the system is working properly performing all business and functional requirements as defined in Tender Document.

S. No	Component	SLA Requirement	Falls By Unit	Quarterly Base Penalty Rate (INR)
1	All the components	98%	0.50%	For every decrease of 0.50% in availability of each device in a quarter, a penalty of ₹500 shall be imposed.

ii. Surveillance System– Availability

“Availability”: When the system is working properly performing all business and functional requirements as defined in Tender Document.

S. No	Component	SLA Requirement	Falls By Unit	Quarterly Base Penalty Rate (INR)
1	Fixed CCTV / CCTV – PTZ, NVR, VMS & other	99%	0.50%	For every decrease of 0.50% in availability of each device in a quarter, a penalty of ₹500 shall be imposed.

	allied components			
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iii. Communications Network– Availability

“Availability”: When the system is working properly performing all business and functional requirements as defined in Tender Document.

S. No	Component	SLA Requirement	Falls By Unit	Quarterly Base Penalty Rate (INR)
1.	Overall Network Availability in backbone, distribution and access levels	99%	0.25%	Calculation – Quarterly For every decrease of 0.25% availability of network availability in a quarter, a penalty of ₹2500 shall be imposed.
S. No	Component	SLA Requirement	Increases By Unit	Quarterly Penalty Rate (INR)
2	Mean Time To Repair (MTTR) for Fibre	< 24 hours	1 Hour	For every increase of 1 Hour in repairing of Fibre & its associated component in an instance, a penalty of ₹250 shall be imposed

iv. Logistics Management System- Availability

“Availability”: When the system is working properly performing all business and functional requirements as defined in Tender Document.

S. No	Component	SLA Requirement	Falls By Unit	Quarterly Base Penalty Rate (INR)
1	Application, Application Servers, Storage & Boom Barrier	99.5 %	0.25%	For every decrease of 0.25% in availability of each device in a quarter, a penalty of ₹500 shall be imposed

v. Other Components- Availability

“Availability”: When an application is working properly, performing all business processing to the end user with all activities and tasks. Each application’s availability shall be measured separately to calculate downtime.

S. No	Component	SLA Requirement	Falls By Unit	Quarterly Base Penalty Rate (INR)
1	UPS, NMS, Operator PC, Video wall & remaining all other components like Fire Detection & suppression, Rodent Repellent etc.	99%	0.5%	For every decrease of 0.5% in availability of each such devices (Calculated individually) in a quarter, a penalty of ₹500 shall be imposed

vi. Problem Management SLA

S. No	Component	Severity Level	SLA Requirement	Falls By Unit	Penalty (INR)
1	<p>Problem Management</p> <p>The Agency shall analyse all the incidents and provide a root cause report quarterly if there are more than 10 incidents of the same type. The Agency shall take the needed corrective action to prevent further issues due to the same cause</p>	High	Within 5 days	1 day	For every increase in number of day after 5 days to submit the root cause report, the penalty of ₹100/day shall be imposed.

GST on Penalty shall be recovered in addition to the Penalty amount.

8.3. Waiver of Penalty

If at any time during the Contract, the selected agency should encounter conditions impending timely performance of service, the **selected agency** shall promptly notify to OMC in writing of the fact of the delay, it's likely duration and its cause(s). As soon as practicable after receipt of the selected agency's notice, the OMC shall evaluate the situation and may at its discretion waive the penalty on the request of the selected agency.

8.4. OMC shall have full liberty to realise the LD / Penalty through the following ways:

A) Appropriation of the Performance Security; OR

- B) Appropriation the of EMD (in case provision of Performance Security does not exist); OR
- C) Reduction of the invoice/document value and release of the payment accordingly

9. Secrecy

- 9.1. The Technical (Source Code) and Business (Transactional) data and other related documents and such of those materials prepared by or made available to the Agency during the execution of the project shall not be used for any purpose other than for execution of this contract.
- 9.2. Provisions of these clauses shall not be applicable for that information which are in public domain or already in possession of the Agency or independently developed by the Agency or obtained by the Agency from any third party.

10. Patents/Copy Rights/Designs

- 10.1. The Agency shall indemnify OMC in the event of contingencies arising on account of infringement of patent rights, copy rights or other intellectual property-laws and other claims by third parties in respect of software design, data, drawings furnished by the Agency.

11. Contract period

- 11.1. Effective Date of Contract shall be the date of Signing of Agreement.
- 11.2. The Contract Period shall consist of following:
 - a. Implementation Period – It shall be the period from signing of agreement to the 2 months Post Go Live Event of the first mine.
 - b. Operation and Maintenance Period – It shall be for a period of 5 years starting from 2 months of Post Go Live Event of first mine.
- 11.3. The SO/Contract shall be created every year during the entire duration of Contract Period depending upon the satisfactory performance of the Service Provider.
- 11.4. The contract may be extended further for 2 years for Operation & Maintenance (O&M) based on satisfactory performance of the SI on same price and terms & conditions as valid for 5th year of O&M. For any extension beyond 7 years, the price shall be decided mutually.

12. Payment terms:

- 12.1. The place of payment shall be HO. However, invoices shall be placed at HO for item mentioned at Clause 12.2.1 & 12.2.2. and for other items invoices shall be placed at the respective regional office of the mine where LMS & CCC are being implemented for verifications.

12.2. Payment Schedule

12.2.1. Charges for Study of the AS IS Process, process Mapping, SRS Finalization and DBR.

Sl. No.	Milestone	Payment
1	Study Report duly accepted by OMC and Sign off of SRS	100 % Charges with applicable GST

12.2.2. Software Development Charges

Total Charges for Software development shall be divided into 13 equal parts for 13 mines and shall be paid mine wise

Sl. No.	Milestone	Payment
1	2 Months post Go-Live of LMS & CCC at respective mine	Total Charges of Software Development divided by 13

12.2.3. Software Customization Charges Software (i3ms, SAP) Integration, WB Automation & Integration (Man Less) and Training of Stakeholders

Sl. No.	Milestone	Payment
1	2 Months post Go-Live of LMS & CCC at respective mine	100 % Charges with applicable GST

12.2.4. Supply & Installation Charges

Sl. No.	Milestone	Payment
1	Supply of all hardware as per the BoQ or as per the agreed BoQ post SRS & DBR Report at respective mine	70% of the total supply cost
2	2 Months post Go-Live of LMS & CCC at respective mine	30% of the total supply cost

12.2.5. Annual Support of LMS & CCC (Excluding Manpower and Annual Support Service of Boom barrier supplied by OMC)

Sl. No.	Milestone	Payment
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1	Completion of each quarter of Annual Support of Logistics Management System & CCC	25% of Annual Charges on completion of every Quarter
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Note: The Annual Support Service charges quoted by Bidder is in %age of Total Supply of equipment. The actual supply of materials to each mine shall be base for the payment towards Annual Support Service.

12.2.6. Annual Support for Boom barrier supplied by OMC excluding Manpower Cost

Sl. No.	Milestone	Payment
1	Completion of each quarter of Annual Support of Logistics Management System & CCC	25% of Annual Charges on completion of every Quarter

12.2.7. Manpower Cost as a part of Annual Support Service

Sl. No.	Milestone	Payment
1	Completion of each quarter of Annual Support of Logistics Management System & CCC	Quarterly payment based on actual number of personnel deployed based on the attendance sheet duly certified by the Authorized officer of OMC

12.2.8. Payment Against Change Request, if any including future customization/ development after Go-Live

Sl. No.	Milestone	Payment
1	Completion of Change Request duly accepted by OMC	100% of Change Request Charges*

*Change Request Charges are calculated based on Clause 6.10.2.

13. Price Revision

No price revision shall be applicable throughout the Delivery Period and the Contract Period for all 13 mine as per the scope of work.

For supply of materials for the change request or implementation of LMS at new mines during the period of contract, the price quoted shall be firm for 2 years from the date of agreement and the Service provider shall provide materials at this rate. However, for the period beyond 2 years, the price shall be mutually finalized.

14. Limitation of Liability

Notwithstanding anything contrary contained herein, the aggregate total liability of Agency under the Service Order / Agreement or otherwise shall be limited to 100% of Service Order / Agreement price. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.

15. Taxes & Duties

15.1. Indirect Taxes

- A) The Service Provider agrees to and, hereby accepts full and exclusive liability for payment of any and all taxes, duties, charges and levies as per the Applicable Laws as applicable for the Scope of Supply in accordance with the provisions of this Service Order / Agreement. In case it is increased or decreased under any statute, rules, regulations, notifications, etc. of any Authority, the impact shall be to the account of OMC subject to submission of documentary evidence to the satisfaction of OMC.
- B) In case any fresh tax is imposed by any Authority under any Applicable Law during the Contract Period, the Service Provider shall deposit the same to the appropriate Authority which shall be reimbursed by OMC on actuals and upon submission of documents evidencing such payment.
- C) Obligations relating to Goods and Services Tax (GST)
 - i) The Service Provider should have registration under GST Acts
 - ii) The Service Provider has to raise Invoice as required under section 31 of the GST Act and relevant Rules made there under.
 - iii) The Invoice should contain the following particulars as required under Rule 46 of CGST Rules;
 - a. Name, address and Goods and Services Tax Identification Number of the Supplier;
 - b. A consecutive serial number not exceeding sixteen characters, in one or multiple series, containing alphabets or numerals or special characters- hyphen or dash and slash symbolised as “-” and “/” respectively, and any combination thereof, unique for a financial year;
 - c. Date of its issue;
 - d. Name, address and Goods and Services Tax Identification Number

- e. or Unique Identity Number, if registered, of the recipient;
 - f. Harmonised System of Nomenclature code for goods or SAC code for services;
 - g. Description of goods or services;
 - h. Quantity in case of goods and unit or Unique Quantity Code thereof;
 - i. Total value of supply of goods or services or both;
 - j. Taxable value of the supply of goods or services or both taking into account discount or abatement, if any;
 - k. Rate of tax (Central tax, State tax, integrated tax, Union territory tax or Cess);
 - l. Amount of tax charged in respect of taxable goods or services (Central tax, State tax, integrated tax, Union territory tax or Cess);
 - m. Place of supply along with the name of the State, in the case of a supply in the course of Inter-State Trade or Commerce;
 - n. Address of delivery where the same is different from the place of supply;
 - o. Whether the tax is payable on reverse charge basis; and
 - p. Signature or digital signature of the supplier or his authorised representative.
- iv) The Service Provider should file the GST Returns as required in the GST Acts, and details of Invoice submitted to OMC and GST amount charged thereon should reflect in Form GSTR-2A within a reasonable time, so as to make OMC enable to take Input Tax Credit (ITC) of the GST amount paid against those invoices.
- v) If due to any reason attributable to the Service Provider, Input credit of the GST amount paid on Invoices raised by the Service Provider is not available to OMC/denied by the dept. then the same will be recovered from the payments of the Service Provider or the Service Provider has to deposit an equivalent amount.
- vi) The Service Provider has to comply with all the Provisions of GST Acts, Rules and Notifications issued there under.
- vii) The Service Provider will comply with the "Anti profiteering Measure" as required under Section 171 of the CGST Act.
- viii) The Service Provider hereby undertakes to indemnify OMC, from any liabilities arising in future due to noncompliance by the Service Provider of the GST Acts, Rules and any other Acts currently in force and applicable to

the Service Provider in relation to the job assigned to the Service Provider by OMC.

15.2. Direct Taxes

TDS as applicable shall be deducted under Income Tax Act,1961 and certificate of deduction shall be provided by OMC to the Service Provider in accordance with the provisions of Income Tax Act,1961.

16. Compliances to policies and standards adopted or to be adopted by OMC

The Service Provider shall abide by and ensure compliance with the following policies and standards adopted or to be adopted by OMC:

- i) Integrated Management System (IMS) policy of OMC – as available on the website of OMC and as may be updated by OMC from time to time
- ii) Sustainable Development Framework (SDF) – The Ministry for Mines, Government of India has implemented a “Star Rating” system for mining leases to promote sustainable development practices, which includes addressing the social impact of resettlement and rehabilitation and key information’s of the mining activity including mines basic information’s environmental safe guard measures, CSR activities as a whole. A star rating program is the implementation to be given to mining leases for the efforts and initiatives taken for implementation of the SDF. In order to implement its performance with respect to the SDF on environmental, social and operational aspects, OMC has constituted a Sustainable Development Unit (SDU). In this context, the Service Provider shall adhere to implement at its own costs all aspects, requirements and directives of the SDF and SDU as may be applicable to the Service Provider.

17. Designated nodal officer and key contacts of OMC

Name: Mr. S S Nanda
Designation: GM (IT)
Land line: 0674 2377544
Email: seshasharabya.nanda@odishamining.in

Annexure 2A: Proforma of the Agreement to be Signed between OMC and the Service Provider

Ref: [•]

This Agreement (hereinafter called the “Agreement”) is made on this [•] day of the month of [month], [year].

BETWEEN

The Odisha Mining Corporation Limited, an undertaking of the Government of Odisha and having its head office at OMC House, Bhubaneswar-751001 (hereinafter referred to as “OMC”, which expression shall, unless repugnant to or inconsistent with the context, mean and include its successors and assigns) of the first part.

AND

M/s. [•], a company incorporated under the provisions of the Companies Act, 1956/2013 or a registered partnership firm under the provisions of the Indian Partnership Act, 1932 or a LLP firm registered under LLP Act, 2008 and having its registered office at [•] (hereinafter referred to as the “Service Provider” which expression shall unless repugnant to or inconsistent with the context, mean and include its successors and assigns) of the other part.

WHEREAS

- i) the Service Provider, in the ordinary course of its business, is engaged in providing [•] services to its clients, and have represented to OMC through their bid(s), against Bid document No. [•] dated [•] (hereinafter called the “Tender”) for the Procurement of Services - [•] (through e-tendering);
- ii) on the basis of the said Tender, OMC has adjudged the Service Provider as a successful Bidder and issued Letter of Award (LoA) No. [•] dated [•] for the same;
- iii) the Service Provider has agreed through their letter of acknowledgement vide letter No. [•] dated [•] to perform and undertake the scope of work as described in the Tender;
- iv) the Service Provider is being engaged to provide the required services on the terms and conditions set forth in this Agreement;

NOW THEREFORE THE PARTIES hereby agree as follows:

1. The mutual rights and obligations of the Service Provider and OMC shall be as set forth in this Agreement, in particular:

- (a) The Service Provider shall provide out the services in accordance with the provisions of this Agreement; and
- (b) OMC shall make payments to the Service Provider in accordance with the provisions of this Agreement.

1. Conditions of Contract

- (a) Contract Period: <include relevant clauses from SCC>
- (b) Payment Terms: <include details related to the final quoted /negotiated prices>
- (c) <Other important terms and conditions may be included>
- (d) The Agreement shall be governed by the laws of India and the courts of Bhubaneswar shall have exclusive jurisdiction over all disputes arising under, pursuant to and/or in connection with this Agreement
- (e) This Agreement has been executed in English, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Agreement
- (f) All the terms and conditions as per the Bid document No. [•] dated [•] (including the General Conditions of Contract and Special Conditions of Contract) shall be applicable for this Agreement

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective authorized representatives on the day and year first before written.

For and on behalf of Odisha Mining Corporation
(Authorized Representative)

Name:

Designation:

Odisha Mining Corporation

OMC House, Bhubaneswar-751001

For and on behalf of M/s.
(Authorized Signatory)

Name:

Designation:

Name of the Service Provider:

Address:

In presence of the following witnesses

Name:

Name:

Designation:
Odisha Mining Corporation
OMC House, Bhubaneswar-751001

Designation:
Name of the Service Provider:
Address:

Annexure 3: Format for Power of Attorney

(to be executed on INR 100 non judicial stamp paper and to be duly notarized)

Known all men by these presents, we..... (name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorize Mr./ Ms. (name), son/daughter/wife of and presently residing at, who is presently employed with us and holding the position of , as our true and lawful attorney (hereinafter referred to as the “Attorney”) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our tender against the Bid document no. [•] dated [•] published by the Odisha Mining Corporation Limited for the “Procurement of Services – [•]”, including but not limited to signing and submission of all applications, bids and other documents and writings,

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE,....., THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF 20[•].

For

Witnesses

.....
(Signature, name, designation and address)

1.

2.

Accepted

(Signature)
(Name, Title and Address of the Attorney)

Annexure 4: Price Bid Format

(The price bid mentioned below is indicative only. The actual price bid is available in e-procurement portal (tenderodisha.gov.in).
The bidders are requested to download the same & quote accordingly.

PART I

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
A	Study of the AS IS & TO BE Process SRS & DBR Finalization.	Nos	1			
B	Software Development	Lumpsum	1			
C	<ul style="list-style-type: none"> Software Customization, Hardware (boom barrier, controller, Traffic Light, IR Sensor, PAS etc.) Integration and Implementation Charges, including Testing, Software (i3MS, SAP) Integration Training 	Nos	13			
D	WB Automation & Integration (Man-less)	Nos	74			
E	Command Center Interior (Floor Plan attached as Annexure 20) ("Design, Supply & Installation")	Nos	11			

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
F	Offsite Man-days rate for any future customization / development after Go Live	Mandays	22			
G	Onsite Man-days rate for any future customization / development after Go Live	Mandays	22			

PART II

Sl. No.	Items	TOTAL AMOUNT of Supply Without GST	TOTAL AMOUNT of Installation Without GST	Total Amount for Supply & Installation	TOTAL AMOUNT In Words
1	Total Supply & Installation Cost of Hardware				

Bidder to upload breakup of total supply cost in PDF format as per below table. **This is to be uploaded with Price Bid only and not in the Techno-Commercial Bid.** Total Amount shall match both in Price bid format and the pdf uploaded. In case of any discrepancies, total price of price bid format shall be considered and OMC may ask the Bidder to resubmit the pdf with detailed break as per below mentioned table, matching the price bid.

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	Installation Charges per each unit in Figure. To be entered by bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
A	Supply						
1	24 Port L3 Switch	Nos	22				
2	8 Port L2 PoE + Switch (Industrial)	Nos	134				
3	8 Port L2 PoE + Switch (Indoor)	Nos	114				
4	6U Wall Mount Indoor Rack with one fixed shelf	Nos	114				
5	24 Port L2 PoE + Switch	Nos	22				
6	UTP Cable	Mtrs	32875				
7	Fully Loaded Jack Panel	Nos	156				
8	CAT 6 IO	Nos	1262				
9	FacePlate	Nos	1262				
10	1 Mtr. UTP Patchcord	Nos	1262				
11	2 Mtr. UTP Patchcord	Nos	1262				
12	SM Fibre Patchcord	Nos	356				
13	Dome Camera	Nos	158				
14	Bullet Camera	Nos	228				
15	PTZ Camera	Nos	41				
16	24 Port LIU	Nos	156				
17	Outer Junction BOX	Nos	134				
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	Nos	134				
19	24F Joint Enclosure	Nos	134				
20	Manhole	Nos	225				

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	Installation Charges per each unit in Figure. To be entered by bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
21	10 KVA UPS (n+1)	Nos	11				
22	2 KVA UPS	Nos	160				
23	Fixed Long Range UHF RFID Reader	Nos	114				
24	6 Meter GI Cantilever Pole (for FRID) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	Set	114				
25	FRP/ GRP/ MS Pole Mount JB, Min. for RFID System	Nos	114				
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	Nos	14				
27	Traffic Light	Nos	114				
28	Motorized Boom Barrier with 3/ 3.5 Meter Arm, IP Based	Set	93				
29	IR Beam Sensor Mounting Pole arrangement	Pair	228				
30	Polycarbonate/ FRP/ GRP JB for Boom Barrier	Nos	228				
31	Manual Control Console (Boom Barrier, Traffic Signal)	Nos	114				
32	Active LED Display with intelligent controller	Nos	114				

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	Installation Charges per each unit in Figure. To be entered by bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
33	Intelligent Controller for WB/ PLC Controller	Set	74				
34	RS232 Active Splitter	Nos	74				
35	WB (IR/ Ultrasonic) Stabilizing Sensor Pole Arrangement	Nos	222				
36	Polycarbonate/ FRP/ GRP JB for WB	Nos	222				
37	PLC Controller (Excluding Controllers considered in WB)	Nos	40				
38	LED Display	Nos	104				
39	VMD with Controller and UPS	Nos	10				
40	Mounting Structure (Pole) for VMD	Nos	10				
41	Outdoor Junction Box for VMD (UPS and other items)	Nos	10				
42	DIN Rail Mount LIU for VMD (fully loaded)	Nos	10				
43	Media Converter	Nos	10				
44	OFC Cable for VMD	Nos	10				
45	Lightening Arrestor, Earthing GI Strip for VMD	Nos	10				
46	3 Core Armoured Cable for VMD	Nos	10				

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	Installation Charges per each unit in Figure. To be entered by bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
47	24 ADSS OFC Cable/ 24C SM Fibre Cable	Nos	90000				
48	Poles for OFC cable laying including concrete foundation	Nos	2060				
49	Lightening Arrester, Surge Protection Device and Chemical Earthing	Nos	145				
50	Network Management System	Nos	11				
51	Video Wall (2X2 55" LED Display) + Software + Controller	Nos	11				
52	CCC Operator PC	Nos	66				
53	42U Rack (Network)	Nos	22				
54	General Server	Nos	33				
55	PAS Operator Console	Nos	11				
56	PAS Central Software	Nos	11				
57	PAS Local Sub-System – Horn Speaker	Nos	134				
58	PAS Local Sub-System – IP Amplifier	Nos	134				
59	PAS Local Sub-System – Control Desk	Nos	11				
60	Variable Message Signboard Central Software	Nos	11				

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	Installation Charges per each unit in Figure. To be entered by bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
61	SVDS Central Software	Nos	11				
62	SVD Camera	Nos	26				
63	External IR Illuminator	Nos	26				
64	Local Processing Unit (LPU) for ANPR & SVD	Nos	26				
65	Speed Detection Software Module (As per design)	Nos	26				
66	ANPR Software Module (as per design)	Nos	26				
67	6U Pole Mount Junction Box for SVD	Nos	26				
68	Rack Mount LIU (fully loaded) for SVD	Nos	26				
69	6 Meter GI Cantilever Pole (for SVD) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	Nos	26				
70	Fire Alarm & Suppression System	Nos	11				
71	Rodent Repellant System	Nos	11				
72	Video Management Software	Nos	11				
73	Storage (300 TB)	Nos	11				
74	Antivirus Software (Server, PC at CCC) Subscription	Set	99				

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	Installation Charges per each unit in Figure. To be entered by bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
75	A4 Laser Printer	Nos	11				
76	Desktop Fixed Long Range UHF RFID Reader & Writer	Nos	11				
77	Access Control System and accessories	Nos	22				
78	Water Leak Detection System	Nos	11				
79	QR Code Reader/ Scanner	Nos	114				
80	Pole for QR Code Reader/ Scanner	Nos	114				
81	Handheld device at Loading/ Stock Yard	Nos	35				
82	Wifi Access Point	Nos	35				
83	Thermal Printer	Nos	26				
84	FRP/GRP Pole Mount JB	Nos	134				
85	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	Lot	114				
86	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	Lot	114				
87	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	Lot	114				
88	PVC Perimeter Trunking- PVC Casing Caping for internal wiring	Lot	114				

Sl. No.	Items	UOM	Qty.	BASIC RATE per each in Figures To be entered by the Bidder INR	Installation Charges per each unit in Figure. To be entered by bidder INR	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
89	PVC Perimeter Trunking- Internal electrical and networking work within local control room	Lot	114				
90	Emergency Call Box (ECB) and associated licenses at field	Set	30				
91	Network SPD, CAT 6	Nos	1092				
92	IR Through Beam Sensors (WB & Boom Barrier)	Nos	672				
93	12/24 VDC Power Supply for IR Through Beam Sensor	Nos	188				
94	RFID Tags	Nos	17500				

Note:

The installation cost for the items mentioned above shall include cost toward all the necessary tools, materials along with all accessories as required & works. It can include HDPE duct, stay arrangement of pole, 1G SFP Module for Uplink Ports, civil work, etc. that has not been quantified in the BoQ, however is required for installation.

Part III

Annual Support Services including AMC of Equipment and Hardware other than boom barriers supplied by OMC (Excluding Manpower Charges Deployed at Site)

Sl. No.	Services	Quantity*	Annual Support Service Charges as %age of Total Basic Price of Supply	Total Amount per annum in INR
(a)	(b)	(c)	(d)	(e)
1.	Annual Support Services for Year 1 (Excluding Boom Barrier Supplied by OMC)	1		
2.	Annual Support Services for Year 2 (Excluding Boom Barrier Supplied by OMC)	1		
3.	Annual Support Services for Year 3 (Excluding Boom Barrier Supplied by OMC)	1		
4.	Annual Support Services for Year 4 (Excluding Boom Barrier Supplied by OMC)	1		
5.	Annual Support Services for Year 5(Excluding Boom Barrier Supplied by OMC)	1		

Part IV

Annual Support Services including AMC of boom barriers supplied by OMC (Excluding Manpower Charges Deployed at Site)

Sl. No.	Services	Quantity*	Annual Support Service Charges per unit	Total Amount per annum in INR
1.	Annual Support Services for Boom Barrier supplied by OMC for Year 1	22		
2.	Annual Support Services for Boom Barrier supplied by OMC for Year 2	22		
3.	Annual Support Services for Boom Barrier supplied by OMC for Year 3	22		
4.	Annual Support Services for Boom Barrier supplied by OMC for Year 4	22		

5.	Annual Support Services for Boom Barrier supplied by OMC for Year 5	22		
----	---	----	--	--

Note: OMC already has 22 boom barriers across locations of the below make. Bidders has to factor in the cost of the Maintenance of these boom barriers in AMC Support Services while quoting.

Product Name: ALASKA Drop Arm Barrier (Boom Barrier), As Per MHA QR for Drop Arm Barrier (Boom Barrier)

Brand: ALASKA

Order Placed: May, 2022

Date of Installation: July, 2022

Warranty: 1 year, since date of installation

Part V

Sl. No.	Services	Quantity*	Annual Manpower Charges	Total Amount per annum in INR
(a)	(b)	(c)	(d)	(e)
1	Annual Manpower Charges for Year 1 excluding project manager	35		
2	Annual Charge for Project Manager year 1	1		
3	Annual Manpower Charges for Year 2 excluding project manager	35		
4	Annual Charge for Project Manager Year 2	1		
5	Annual Manpower Charges for Year 3 excluding project manager	35		

6	Annual Charge for Project Manager Year 3	1		
7	Annual Manpower Charges for Year 4 excluding project manager	35		
8	Annual Charge for Project Manager Year 4	1		
9	Annual Manpower Charges for Year 5 excluding project manager	35		
10	Annual Charge for Project Manager Year 5	1		

Signature of the Bidder with seal

Note: The technically qualified L1 will be decided after computing the least price Total Amount of Price Bid Part I,II, III, IV and V

Annexure 5: Declaration by the Bidder

(to be executed on INR 100 non judicial stamp paper and to be duly notarized)

Date: _____

Sub: Tender No. _____

In response to the Tender Document above stated, I/We hereby declare and solemnly swear that our Company/ firm _____ is not banned/blacklisted as on date by any competent court of Law, forum or any State Government or Central Government or their agencies or by any statutory entities or any PSUs.

AND, if at any stage the declaration/statement on oath is found to be false in part or otherwise, then without prejudice to any other action that may be taken, I/We, hereby agree to be treated as a disqualified Bidder for the ongoing Contract.

In addition to the disqualification our concern/entity may be banned/blacklisted.

AND, that I/We, shall have no right whatsoever, to claim for consideration of my/our bid at any stage and the money deposited in the form of EMD shall be liable for forfeiture in full, and the tender, if any to the extent accepted may be cancelled.

Signature of the Deponent

(Authorized signatory of the Bidder with Seal)

Date:

Place:

Annexure 6: Checklist for the Techno-Commercial Bid

(to be enclosed with the Techno-Commercial Bid)

1. Name of the Bidder, Postal address & Registered Office:
2. Type of organization:
3. Contact name & designation of the Authorized Signatory of the Bidder & contact number:
4. Official email, phone, fax:
5. Official website:

Sl. No.	Qualification Requirement	Complied	Documents
1	Bidder's Experience – Documents in support of meeting Technical Criteria and Financial Criteria (Refer Chapter 7 and Clause 8.15.1)		
2	Incorporation related documents (Refer Chapter 7)		
3	Covering Letter – Annexure 10		
4	Tax related documents Annexure 14		
5	Declaration by the Bidder - Annexure 5		
6	Proof of payment of Tender Paper Fee		
7	Proof of payment of EMD/ documents related- to exemption from the same		
8	Power of Attorney - Annexure 3 along with Board Resolution		
9	Signed copy of check list with seal - Annexure 6		
10	Bank details – Annexure 7		
11	Documents towards fulfillment of Technical Scoring criteria as per Clause 8.19.6		
12	Total Responsibility Certificate – Annexure 9		
13	Integrity Pact - Annexure 15		
14	Approach & Methodology- Annexure 12		
15	Declaration by SI – Annexure 17 along with Annexure 18		

Date

Signature of the Authorized Signatory of the Bidder with Seal

Annexure 7: Mandate Form - on the letterhead of the Bidder

To

The Odisha Mining Corporation Limited

OMC House, Post Box No. – 34, Unit 5, Bhubaneswar

Odisha – 751001

Sub: Mandate for payment through electronic mode i.e. EFT/NEFT/RTGS

Dear Sir,

We are hereby giving our consent to get all our payments due from The Odisha Mining Corporation Ltd. through electronic mode i.e. EFT/NEFT/RTGS. We also agree to bear all the bank charges payable in this regard.

(Please furnish the information in capital letter)

1. Name of the Bidder
2. Address of the Bidder

PIN Code			
IT PAN			
e-mail Id		Mobile No	
Phone		FAX No	

3. Bank Particulars

Bank Name					
Branch Name					
Branch Place					
Account No.					
Account Type	Saving/Current/Cash Credit		Branch State		
RTGS Enable	Yes/No	NEFT Enabled	Yes/No	Core-Bank Enabled *	Yes/No
Branch Code		MICR Code		IFSC Code	

* In case of Bidders having Bank account in Union Bank Of India

4. Effective Date

We hereby declare that the particulars furnished are correct & complete. If any transaction is delayed or not effected for incomplete/incorrect information/any other technical reasons, we will not hold the OMC Ltd. responsible.

Date

Signature of the Authorized Signatory of the Bidder with Seal

Certified that the Bank particulars furnished are correct as per our record.

Date:

Signature of the Bank with seal

Annexure 8: Format for Performance Security

BG should be obtained from Nationalised/ Scheduled Bank and should be operable and invokable at its Branch in Bhubaneswar

(To be executed on INR 100/- non-judicial stamp paper)

B.G. No.

Dated:

WHEREAS:

- (A) (“AGENCY”) and The Odisha Mining Corporation having its office at OMC House, Bhubaneswar – 751 001 ("OMC") has issued a Letter of Award (LoA) dated (the "LoA") whereby OMC has agreed to engage the Agency for (the “agreement”).
- (B) The LOA requires the AGENCY to furnish Performance Security to OMC of a sum of INR _____/- (the "Guarantee Amount") as security for due and faithful performance of its obligations, under and in accordance with the AGREEMENT, for a period of _____ (the “Guarantee Period”).
- (C) We, through our branch at(Bhubaneswar) (the "Bank") have agreed to furnish this bank guarantee ("Bank Guarantee") as Performance Security. NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:
1. The Bank hereby, unconditionally and irrevocably, guarantees and undertakes to pay to OMC upon occurrence of any failure or default in due and faithful performance of all or any of the AGENCY’s obligations, under and in accordance with the provisions of the agreement, on its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Agency, such sum or sums up to an aggregate sum of the Guarantee Amount as OMC shall claim, without OMC being required to prove or to show grounds or reasons for its demand and/ or for the sum specified therein.
 2. A letter from OMC that the AGENCY has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that OMC shall be the sole judge as to whether the AGENCY is in default in due and faithful performance of its obligations under the agreement and its decision that the Agency is in default shall be final, and binding on the Bank, notwithstanding any difference between OMC and the Agency, or any dispute

between them pending before any court, tribunal, arbitrator or any other judicial or quasi-judicial body or by the discharge of the Agency for any reason whatsoever.

3. In order to give effect to this Bank Guarantee, OMC shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Agency and/ or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Bank Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for OMC to proceed against the Agency before presenting to the Bank its demand under this Bank Guarantee.
5. OMC shall have the liberty, without affecting in any manner the liability of the Bank under this Bank Guarantee, to vary at any time, the terms and conditions of the agreement or to extend the time or period for the compliance with, fulfilment and/ or performance of all or any of the obligations of the AGENCY contained in the agreement or to postpone for anytime, and from time to time, any of the rights and powers exercisable by OMC against the AGENCY, and either to enforce or forbear from enforcing any of the terms and conditions contained in the agreement and/ or the securities available to OMC, and the Bank shall not be released from its liability and obligation under this Bank Guarantee by any exercise by OMC of the liberty with reference to the matters aforesaid or by reason of time being given to the AGENCY or any other forbearance, indulgence, act or omission on the part of OMC or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would, but for this provision, have the effect of releasing the Bank from its liability and obligation under this Bank Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Bank Guarantee is in addition to, and not in substitution of, any other guarantee or security now or which may hereafter be held by OMC in respect of, or relating to, the agreement or for the fulfillment, compliance and/ or performance of all or any of the obligations of the Agency under the agreement .
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Bank Guarantee is restricted to the Guarantee Amount and this Bank Guarantee will remain in force until the expiry of the Guarantee Period, and unless a demand or claim in writing is made by OMC on the Bank under this Bank Guarantee no later than twelve (12) months from the date of expiry of the

Guarantee Period, all rights of OMC under this Bank Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.

8. The Bank undertakes not to revoke this Bank Guarantee during its validity, except with the previous express consent of OMC in writing, and declares and warrants that it has the power to issue this Bank Guarantee and the undersigned has full powers to do so on behalf of the Bank.
9. Any notice by way of request, demand or otherwise hereunder may be sent by hand/messenger or by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorized to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of OMC that the envelope was so posted shall be conclusive.
10. This Bank Guarantee shall come into force with immediate effect and shall remain in force and effect until the expiry of the Guarantee Period (including the claim period) or until it is released earlier by OMC pursuant to the provisions of the agreement.
11. Capitalized terms used herein, unless defined herein, shall have the meaning assigned to them in the agreement.
12. Notwithstanding anything contained herein:
 - i) Our liability under this Bank Guarantee shall not exceed INR
 - ii) The Bank Guarantee shall be valid up to ("Expiry Date including claim period" of the Bank Guarantee).
 - iii) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and if you serve upon us a written claim or demand made in the manner prescribed in this Bank Guarantee on or before (Claim Period of the Bank Guarantee) at our Branch at _____ Bhubaneswar.
 - iv) After claim period all your rights under this Bank Guarantee will be forfeited and we shall be relieved and discharged from all liabilities thereunder, irrespective of whether the original has been returned to us or not.

13. The Bank Guarantee is issued in paper form and Advice transmitted through SFMS with required details to the beneficiary's advising bank (**UNION BANK, OMC CAMPUS BRANCH, BHUBANESWAR, IFSC Code UBIN0810592**)

Signed and Delivered by _____ Bank By the hand of Mr./Ms. _____, its _____ and authorized official.

(Signature of the Authorized Signatory) (Official Seal)

NOTE:

- (i) The Bank Guarantee should contain the name, designation and code number of the officer(s) signing the Bank Guarantee.
- (ii) The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing Branch.

For _____ [Indicate name of Bank]

Signature.....

Full Name.....

Designation.....

Power of Attorney No.....

Date.....

Seal of the Bank.....

WITNESS: (SIGNATURE WITH NAME AND ADDRESS)

(1)

Signature.....

Full Name.....

(2)

Signature.....

Full Name.....

Annexure-9: Total Responsibility Certificate

(To be provided on the Company letter head)

Tender Ref.

Date:

To:

Subject: Self Declaration of Total responsibility

Ref: RFP No. <<....>> dated <<.....>>

Dear Sir,

This is to certify that we undertake the total responsibility for the defect free operation of the proposed solutions as per the requirement of the RFP for the duration mentioned in all the volumes of the RFP.

(Authorized Signatory)

Signature:

Name:

Designation:

Address:

Seal:

Date:

Annexure 10: Covering Letter

(On Bidder's Letter Head)

[Location, Date]

To:

[●]

Odisha Mining Corporation Ltd.

Bhubaneswar

Dear Sir,

I, the undersigned, offer to provide the services for the proposed assignment in respect to your Bid document No. _____, Dated: _____. I hereby submit the Bid which includes this Techno-Commercial Bid. Our Bid will be valid for acceptance up to <Nos.> Days and I confirm that this Bid will remain binding upon us and may be accepted by you at any time before this expiry date.

All the information and statements made in this Techno-Commercial Bid are true and correct and I accept that any misinterpretation contained in it may lead to disqualification of our Bid. If negotiations are held during the period of validity of the Bid, I undertake to negotiate on the basis of the Bid submitted by us. Our Bid is binding upon us and subject to the modifications resulting from contract negotiations.

I have examined all the information as provided in your Bid document and offer to undertake the service described in accordance with the conditions and requirements of the selection process. I agree to bear all costs incurred by us in connection with the preparation and submission of this Bid and to bear any further pre-contract costs. In case, any provisions of this Bid document/ ToR including of our Techno-Commercial Bid & Price Bid is found to be deviated, then OMC shall have rights to reject our Bid including forfeiture of the Earnest Money Deposit absolutely. I confirm that, I have the authority to submit the Bid and to clarify any details on its behalf.

I understand you are not bound to accept any Bid you receive.

I remain,

Yours sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Address:

Annexure 11: SA 8000 Compliance Format

A. Basic information

Name of the organization	
Registered Office Address	
Telephone No / Mobile No.	
Name of the contact person	
Number of employees (staff and Workers)	

B. Information regarding Social Accountability

- What is the minimum age required to join your organization? _____ Years
- Do you engage child labour in any light work? Yes / No
- What types of certificates / ID proof (Like mark sheet, Birth certificate, aadhar card) you keep with you? Original / Photocopy
- Do you require to keep any kind of deposit at the time of employment? Yes / No
- Do the workers know the risk / hazard associated with their work? Yes / No
- Do you provide personal protective equipment(s) to your employees free of cost? Yes / No
- Do you ensure canteen facility for your employees? Yes / No
- What types of medical benefits you provide to your employees?

-
- Do you allow trade union and collective bargaining? Yes / No
If no, how do you ensure freedom of expression? (Write NA if you mark as yes)

-
- In case of non-performance of any employee, how do you deal with such situations?

- What are the procedures of hiring /promotion in your organization?

- Do you provide appointment letter to your employees? Yes / No
- Do you maintain a documented terms and conditions of employment, or personnel file? Yes/ No
- If no, how do you terminate your employee?

- How do you ensure that your employees are not discrimination on the basis of cast creed, gender, religion, age etc?

- How many shift you have? _____ shifts

- Which day is off day in your organization? _____

- In case, a person works in off day or holiday, how he / she is compensated?

- Do you engage worker in overtime? Yes / No
- Do you pay overtime to your employees as per law? Yes / No
- Lowest amount (salary / wage) you pay to your employees? Rs. _____/- (per day)
- Highest amount paid by you? Rs. _____/- (per day)
- Is there any case of deduction in wage? Yes / No
- In case, it is yes, what are the general reasons for such deduction?

- Have you taken care to look into issues related to child labour Forced labour, health & safety, working hours and remuneration of your suppliers
Yes / No

Declaration:

We do hereby declare that our organization is committed to the principles of social accountability. We will promptly implement remedial / corrective actions identified against the requirement and will promptly inform your organization. We also declare that the sub contractors / sub supplier's performances are monitored by us regarding issues related to SA8000.

Moreover, we declare that if invited, we shall participate in awareness programme as well as monitoring programme organized by you.

We declare that the above-mentioned information are correct to the best of our knowledge

(Signature)

Name of the person: _____

Designation: _____

Date _____/_____/_____

Seal of the organization

Annexure 12: Description of Approach, Methodology and Work Plan for Performing the Assignment

[Technical approach, methodology and work plan are key components of the Techno-Commercial Bid. In this Section, Bidder should explain his understanding of the scope and objectives of the assignment, approach to the services, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. Further, the Bidder should highlight the problems being addressed and their importance and explain the technical approach to be adopted to address them. It is suggested to present the required information divided into following four sections]

A) Understanding of Scope, Objectives and Completeness of response

Please explain your understanding of the scope and objectives of the assignment based on the scope of work, the technical approach, and the proposed methodology adopted for implementation of the tasks and activities to deliver the expected output(s), and the degree of detail of such output. Please do not repeat/ copy the ToR here.

B) Description of Approach and Methodology:

- Key guiding principles for the study.
- Proposed Framework.
- Information matrix
- Any other issues

C) Methodology to be adopted

Explaining of the proposed methodologies to be adopted highlighting of the compatibility of the same with the proposed approach. This includes:

- Detail research design including sample design and estimation procedure.
- Field Process Protocol control
- Suggestive tools for data collection.
- Analysis of field data and preparation of reports
- Any other issues

D) Staffing and Study Management Plan:

The Bidder should propose and justify the structure and composition of the team and should enlist the main activities under the assignment in respect of the Key Staff members responsible for it. Further, it is necessary to enlist of the activities under the proposed assignment with sub-activities (week wise). (Graphical representation)

Authorized Signatory [In full and initials]: _____

Name and Designation with Date and Seal: _____

Annexure 13: Format Indemnity Bond

(To be furnished in Stamp paper as per Stamp Act)

(Stamp Paper should be purchased in the name of the Service provider)

This deed of Indemnity executed by hereinafter referred to as 'Indemnifier' which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, representative and assignees in favour of M/s. Odisha Mining Corporation Ltd., Bhubaneswar, hereinafter referred to as the 'Indemnified' which expression shall unless repugnant to the context or meaning thereof, include its successors and assignees witnesses as to.

Whereas the indemnified herein has awarded to the Indemnifier herein a purchase order/ service order for the supply of on terms and conditions set out inter alia in the Purchase order/ Service Order No..... valued at Rs.....(Rupees only)

And Whereas, it is required under the above mentioned purchase order/ service order to provide an Indemnity bond to the indemnified to safeguard its interest, to be free from defect due to faulty material or workmanship for a period of.....calendar months from the date of receipt of stores or actual working hours from the date of commissioning whichever is earlier of the stores supplied by the Indemnifier to the indemnified.

The indemnifier hereby irrevocably agrees to indemnify the indemnified that for any and all claims, liabilities, damages, losses, costs, charges, expenses, proceedings & actions of any nature whatsoever made or instituted against or caused to be suffered by the Indemnified directly or indirectly by reasons of.

- I. any wrongful, incorrect, dishonest, criminals, fraudulent or negligent work default, failure, bad faith, disregard of its duties and obligation, act or omission by the Indemnifier.
- II. any theft robbery, fraud, or other wrongful action or omission by the Indemnifier and /or any of its staff

The indemnifier hereby irrevocably agrees to indemnify the indemnified that any items/ services loaned by indemnified for use by the indemnifier in the event of the products/ services getting damaged/ non-operational, or such that it affects its life guarantee, the indemnifier shall as may be deemed necessary repair or make good the defective assets at site, free of cost, within a reasonable time specified by the indemnified or reimburse the pro-rata cost of the stores to the extent the life not achieved as per the guarantee, or supply spare stores for the defective portion only free of cost at site in respect of the purchase order/ service order obligations that emanate from the same already referred to the extent of ₹.....(Rupees..... only)

For

(Signature with Name and Designation)

Station:

Date:

Company Seal

Witness

1.....

Signature with Name, Designation and Address

2.....

Signature with Name, Designation and Address

Annexure 14: Rate of GST

The bidders are required to provide the description of activities and applicable GST in the below format

S No	Description	SAC/HSN Code	Rate of GST
1			

Signature

Seal

Annexure 15: Integrity Pact

Integrity Pact

Between

The Odisha Mining Corporation Limited (OMC) hereinafter referred to as "**The Principal**",

and

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

Preamble

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

Section 1 - Commitments of the Principal

- 1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a Contract, demand; take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - b) The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the Contract execution.
 - c) The Principal will exclude from the process all known prejudiced persons.
- 2 If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

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

- 1 The Bidder(s)/ Contractor(s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commit themselves to observe the following principles during participation in the tender process and during the Contract execution.

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

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

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per the procedure mentioned in the Guidelines on Banning of business dealings in the manual of OMC.

Section 4 - Compensation for Damages

- 1 If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 2 If the Principal has terminated the Contract according to Section 3, or if the Principal is entitled to terminate the Contract according to Section 3, the Principal shall be entitled to demand and

recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Security.

Section 5 - Previous transgression

- 1 The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.

If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in Guidelines on Banning of business dealings in the manual of OMC.

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

- 1 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor.
- 2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 3 The Principal will disqualify from the tender process all Bidders who do not sign this Pact or violate its provisions.

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

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

Section 8 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the Contract, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the Bidders and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by MD/ Chairman/ CMD of OMC.

Section 9 - Other provisions

- 1 This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. Bhubaneswar.
- 2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

- 3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5 In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

(For & On behalf of the Principal)
(Office Seal)

(For & On behalf of the Bidder/Contractor)
(Office Seal)

Place -----

Date -----

Witness 1:

(Name & Address) _____

Witness 2:

(Name & Address) _____

Annexure 16: Format for Sending Pre-bid Queries

(On Company's Letter Head)

RFP Reference No.: XX

Bidder's Request for Clarification					
Name of Organisation:			Name of Contact Person:		
Official address of Organisation:			Telephone		
			Email Id		
Sl.No.	Clause No.	Page No.	Content of RFP-Requiring Clarification	Change Requested / Clarification Required	

Signature:

Name of the Authorized signatory:

Company Stamp:

Date:

Note: Bidder(s) are requested to send queries in PDF with sign and stamp and also in MS Excel for making consolidation process easy.

Annexure 17: Declaration by SI for Fulfillment of Functional, Technical & OEM Criteria and Declaration of Make & Model

(To be provided on the Company letter head)

Date: _____

Tender No. _____

In response to the Tender Document stated above, I/We hereby declare that I/We have read the document and confirm the following:

1. that the Make & Model as declared in this section fulfills the technical & functional requirement of Hardware & Software as provided in Annexure 19 of this tender document.
2. that for the components where Make & Model has not been asked, I/We shall fulfill the technical & functional requirements /specifications as provided in Annexure 19 during implementation stage.
3. that the OEM Selection has been done based on the criteria set forth in the Annexure 18 of the tender document for the critical items which has been asked by OMC. In this regard, OEM Declaration, meeting OEM Criteria and Technical & Functional Specification /Requirements, has been provided along with the bid submission.
4. that our offer contains no deviation either Technical (including but not limited to Scope of Work, Business Requirements Specification, Functional Requirements Specification, Hardware Specification and Technical Requirements Specification) or Commercial in either direct or indirect form.

Make & Model Declaration

Part A- Components where OEM Criteria to be fulfilled along with Technical & Functional Compliance

Sl. No.	Components	Make	Model	Document Submitted as a part of Bid	Document Reference along with Page No.
1	FRP/GRP Pole Mount JB			<ul style="list-style-type: none">• Declaration by OEM as per Annexure 18• Data Sheet	
2	Network SPD for CAT6			<ul style="list-style-type: none">• Declaration by OEM as per Annexure 18• Data Sheet	

Sl. No.	Components	Make	Model	Document Submitted as a part of Bid	Document Reference along with Page No.
3	SPD for Sub Distribution Panel – 230 VAC Rated			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
4	SPD for Sensitive Electrical & Electronic Equipment – 24 VAC/VDC			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
5	24 Core, ADSS OFC Cable			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
6	Double Jacket CAT6 UTP Outdoor Cable			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
7	Fixed Long Range UHF RFID Reader (Either of 7.1 or 7.2)			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
7.1	Fixed Long Range UHF RFID Reader with Separate RFID Controller & External Antenna			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
7.2	Fixed Long Range UHF RFID Reader with Integrated RFID Controller & Antenna			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
8	Handheld RFID Reader			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
9	Motorized Boom barrier with 3/3.5 Meter Arm, IP Based			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
10	Manual Control Console (Boom Barrier, Traffic Signal)			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
11	Outdoor Horn Speaker, IP PA Amplifier, Control Desk, PAS Central Software, PAS Central Server and PAS Operator Console – All from Same OEM			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
12	2MP Bullet Camera			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
13	2MP PTZ Camera			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 	

Sl. No.	Components	Make	Model	Document Submitted as a part of Bid	Document Reference along with Page No.
				• Data Sheet	
14	PTZ Joystick			• Declaration by OEM as per Annexure 18 • Data Sheet	
15	2MP Dome Camera			• Declaration by OEM as per Annexure 18 • Data Sheet	
16	SVD cum ANPR Camera			• Declaration by OEM as per Annexure 18 • Data Sheet	
17	External IR Illuminator			• Declaration by OEM as per Annexure 18 • Data Sheet	
18	Local Processing Unit (LPU) for ANPR & SVD			• Declaration by OEM as per Annexure 18 • Data Sheet	
19	Speed Detection Software Module			• Declaration by OEM as per Annexure 18 • Data Sheet	
20	ANPR Software Module			• Declaration by OEM as per Annexure 18 • Data Sheet	
21	VMD, Full Color with Controller			• Declaration by OEM as per Annexure 18 • Data Sheet	
22	Industrial Grade PoE Switch, 8 Port, Redundant Power Input			• Declaration by OEM as per Annexure 18 • Data Sheet	
23	Desktop QR Code Reader			• Declaration by OEM as per Annexure 18 • Data Sheet	
24	8 Port PoE Indoor Switch			• Declaration by OEM as per Annexure 18	
25	Outdoor Junction Box			• Data Sheet	
26	Video Wall, 55" Displays			• Declaration by OEM as per Annexure 18 • Data Sheet	
27	Video Wall Controller with Software			• Declaration by OEM as per Annexure 18 • Data Sheet	
28	L3 Distribution Switch			• Declaration by OEM as per Annexure 18 • Data Sheet	

Sl. No.	Components	Make	Model	Document Submitted as a part of Bid	Document Reference along with Page No.
29	L2 Access Switch, 24 Port			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
30	10 KVA UPS in N+1 Configuration with 30 Min Backup			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
31	Video Management System (VMS)			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	
32	Emergency Call Box			<ul style="list-style-type: none"> Declaration by OEM as per Annexure 18 Data Sheet 	

Part B- Components fulfilling Technical & Functional Requirement as mentioned in Annexure 19 without requirement of fulfillment of OEM Criteria

Sl. No.	Components	Make	Model	Document Submitted as a part of Bid	Document Reference with Page No.
1	Active LED Display with intelligent controller			Data Sheet	
2	CAT-6 Patch Cord			Data Sheet	
3	Cat6 Field Termination Plug			Data Sheet	
4	SM Fiber Patch Cord –Duplex (LC-LC)			Data Sheet	
5	Rack Mount LIU, 24/48 Port Duplex, fully loaded			Data Sheet	
6	RJ-45 Information Outlet, Dual Port			Data Sheet	
7	24 Port Copper Patch Panel, fully loaded			Data Sheet	
8	Cat 6 UTP RJ 45 Keystone Jack			Data Sheet	
9	Pigtail LC Type			Data Sheet	
10	Inline 48 Fibre Optic Splice Enclosure			Data Sheet	
11	Dome Type Outdoor Fibre Optic Splice Enclosure			Data Sheet	
12	IR Through Beam Sensors			Data Sheet	
13	2 Core X 1 Sq. MM Armoured Cable			Data Sheet	
14	3 Core X 1 Sq. MM Armoured Cable			Data Sheet	
15	3 Core X 2.5 Sq. MM Armoured Cable			Data Sheet	

Sl. No.	Components	Make	Model	Document Submitted as a part of Bid	Document Reference with Page No.
16	FRP Pole Mount JB			Data Sheet	
17	MS Powder Coated Pole Mount JB			Data Sheet	
18	Signal Light (Red & Green)			Data Sheet	
19	Intelligent Controller / PLC Controller for Weighbridge (Either of 19.1 or 19.2)			Data Sheet	
19.1	Intelligent Controller for Weighbridge			Data Sheet	
19.2	PLC Controller for Weighbridge			Data Sheet	
20	1Gbps Media Converter			Data Sheet	
21	6U Pole Mount JB			Data Sheet	
22	3" Thermal Printer			Data Sheet	
23	Wi-Fi AP			Data Sheet	
24	ACDB with 1 RCCB, 6 DP MCB			Data Sheet	
25	Electrical, Control & Signal Wiring complete with PDU, Switchboards, Raceways, Terminals, RCCD, MCB's, Networking elements and all other required accessories			Data Sheet	
26	PLC Controller			Data Sheet	
27	Manhole			Data Sheet	
28	2 KVA UPS with 1 Hours Backup on full Load			Data Sheet	
29	5 KVA UPS with 1 Hours Backup on full Load			Data Sheet	
30	A4 LaserJet, MFP, Monochrome			Data Sheet	
31	Desktop UHF RFID Reader & Writer			Data Sheet	
32	Workstation with Dual Screen			Data Sheet	
33	Servers (LMS Software, RFID, VMS)			Data Sheet	
34	Central Storage, Approx. 300 TB			Data Sheet	
35	42U Network Rack			Data Sheet	
36	Fire Alarm & Suppression System			Data Sheet	
37	Variable Message Sign Board Central Software			Data Sheet	
38	Network Management System			Data Sheet	

Sl. No.	Components	Make	Model	Document Submitted as a part of Bid	Document Reference with Page No.
39	6U Wall Mount Indoor Rack			Data Sheet	
40	Presentation Type Barcode Scanner			Data Sheet	

Signature:

Name of the Authorized signatory:

Company Stamp:

Date:

Annexure 18: Letter from OEM confirming fulfilment of Technical & Functional Specifications / Requirements and Meeting OEM Criteria

(On the letterhead of OEM)

Date: _____

Tender No. _____

In response to the Tender Document stated above, We, _____, (name and address of the manufacturer), are established and reputed manufacturers of following products as required intender:

<OEM to mention name of the products as per Price Bid format along with Sl. No mentioned in Price Bid) and model>

a. _____

b. _____

b. _____

We hereby declare,

1. that, we have authorized M/s _____ (name and address of the bidder) to participate in bid, negotiate and conclude the contract with you against the above-mentioned tender for the equipment manufactured / software developed by us.
2. that, we are in the business of the above-mentioned products or technology for at least 10 years as on the date of release of the RFP and we are having our presence in India directly or through our authorized channel partner(s) for more than 5 years.
3. that, the proposed products & solutions are fully compliant to the technical specifications /requirements published in the above-mentioned tender.
4. that, the above-mentioned equipment / software products will not be end of the life for minimum 24 months from the date of bidding and the support this equipment / software products will be available for minimum of 5 years from the date of bidding.
5. that we are ISO 9001/ ISO 14001 and ISO 27001 certified company as on date of release of tender.

6. that, for

- a. hardware components /equipment, we have installed at least 10% of the required quantity of above-mentioned tender document in last 5 years, each, in at least two Similar Project* in India.
- b. Software Product, we have installed and operationalized the software product as mentioned in tender document in minimum 2 Similar Project* in India in last 5 years.

*Similar Project means

- Implementation of Logistic Management System
- Implementation of Integrated Traffic Management System / Toll Management
- Surveillance Projects along with Command & Control Centre
- Integration of Smart City with CCC and traffic management being part of it.

7. That, we have not been blacklisted by any Union Territory/ Central / State Government Department or Central/State Public Sector Units (PSUs) or Smart City in India as on bid submission date.

(Signature & Stamp)

Name of the authorized signatory

Designation

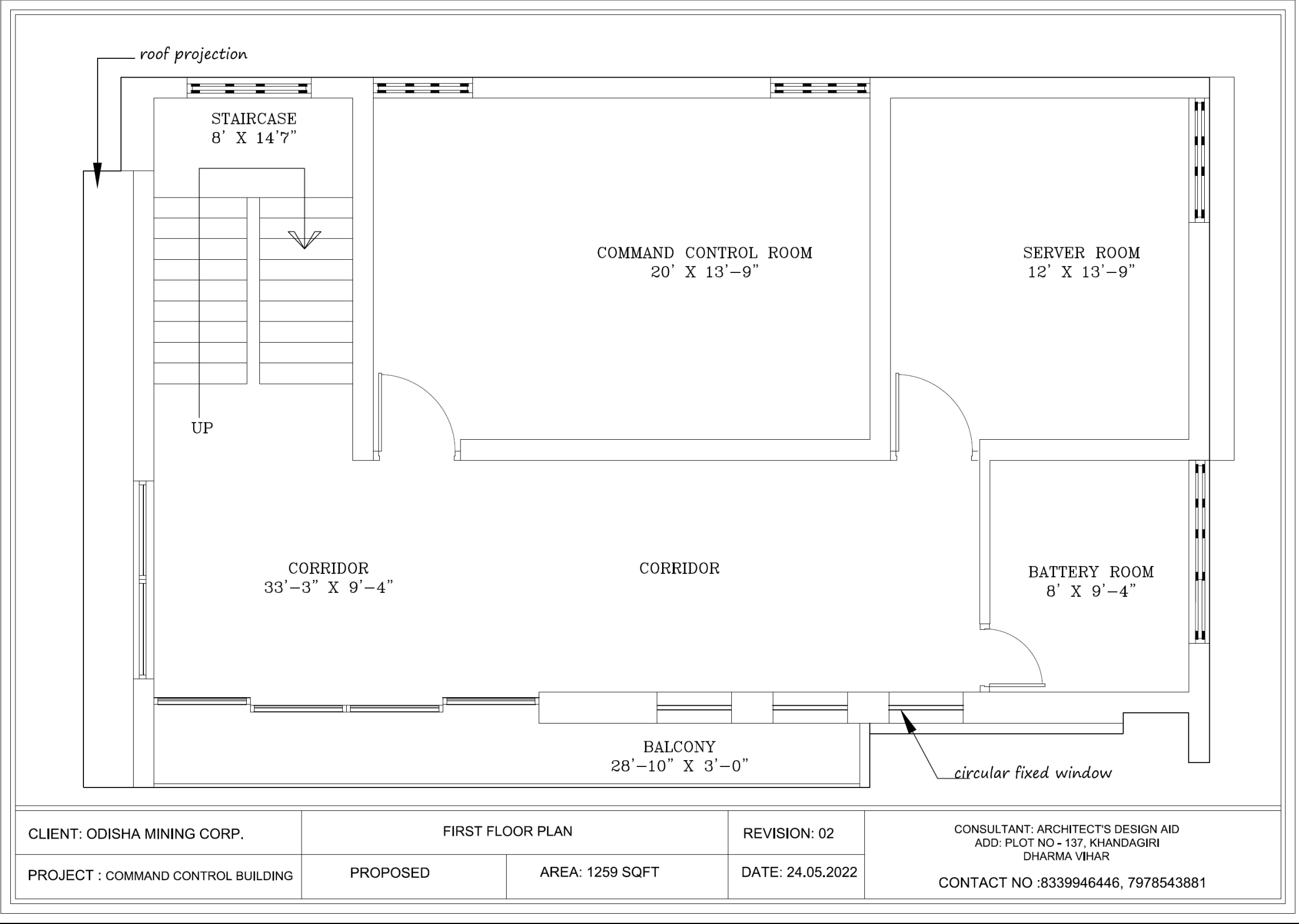
Contact number

Address:

Annexure 19: Functional & Technical Scope along with Specification of Components to be used for Logistics Management System (LMS) and Command & Control Centre (CCC)

Attached as Separate File

Annexure 20: Floor Plan of Command & Control Centre (CCC)



Annexure 21: Mines wise tentative BOQ

		Kumitar										Guali									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	4	1	2	1	1	16	2	2	3	3	8	0	1	1	1	21
	Components																				
1	24 Port L3 Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
2	8 Port L2 PoE + Switch (Industrial)	1	1	3	2	4	1	2	0	0	14	2	2	3	3	8	0	1	0	0	19
3	8 Port L2 PoE + Switch (Indoor)	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
4	6U Wall Mount Indoor Rack with one fixed shelf	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
5	24 Port L2 PoE + Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
6	UTP Cable	125	125	600	400	800	200	200	1000	0	3450	250	250	600	600	1600	0	100	1000	0	4400
7	Fully Loaded Jack Panel	1	1	3	2	4	1	2	2	0	16	2	2	3	3	8	0	1	2	0	21
8	CAT 6 IO	5	5	24	16	32	8	0	40	0	130	10	10	24	24	64	0	0	40	0	172
9	Face Plate	5	5	24	16	32	8	0	40	0	130	10	10	24	24	64	0	0	40	0	172
10	1 Mtr. UTP Patchcord	5	5	24	16	32	8	0	40	0	130	10	10	24	24	64	0	0	40	0	172
11	2 Mtr. UTP Patchcord	5	5	24	16	32	8	0	40	0	130	10	10	24	24	64	0	0	40	0	172
12	SM Fibre Patchcord	0	0	0	0	0	0	0	8	28	36	0	0	0	0	0	0	0	8	38	46
13	Dome Camera	1	1	3	2	4	1	0	4	0	16	2	2	3	3	8	0	0	4	0	22
14	Bullet Camera	2	2	6	4	8	2	0	0	0	24	4	4	6	6	16	0	0	0	0	36
15	PTZ Camera	0	0	0	0	0	1	2	1	0	4	0	0	0	0	0	0	1	1	0	2
16	24 Port LIU	1	1	3	2	4	1	2	2	0	16	2	2	3	3	8	0	1	2	0	21
17	Outer Junction BOX	1	1	3	2	4	1	2	0	0	14	2	2	3	3	8	0	1	0	0	19
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	1	1	3	2	4	1	2	0	0	14	2	2	3	3	8	0	1	0	0	19
19	24F Joint Enclosure	1	1	3	2	4	1	2	0	0	14	2	2	3	3	8	0	1	0	0	19
20	Manhole	1	1	3	2	4	1	2	0	7	21	2	2	3	3	8	0	1	0	7	26
21	10KVA UPS (n+1)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
22	2KVA UPS	1	1	3	2	4	1	2	0	2	16	2	2	3	3	8	0	1	0	2	21
23	Fixed Long Range UHF RFID Reader	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
24	6 Meter GI Cantilever Pole (for FRID) along with foundation, Lightning Arrestor, Earthing with GIS Strip, Earth Cable for LA	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
25	FRP/GRP/MS Pole Mount JB, Min. for RFID System	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	2
27	Traffic Light	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18

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		IN Gate	OUT Gate	Production WB(Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB(Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	4	1	2	1	1	16	2	2	3	3	8	0	1	1	1	21
28	Motorized Boom Barrier with 3/ 3.5 Meter Arm, IP Based	0	0	3	2	4	1	0	0	0	10	1	1	2	2	6	0	0	0	0	12
29	IR Beam Sensor Mounting Pole arrangement	2	2	6	4	8	2	0	0	0	24	4	4	6	6	16	0	0	0	0	36
30	Polycarbonate/ FRP/ GRP JB for Boom Barrier	2	2	6	4	8	2	0	0	0	24	4	4	6	6	16	0	0	0	0	36
31	Manual Control Console (Boom Barrier, Traffic Signal)	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
32	Active LED Display with intelligent controller	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
33	Intelligent Controller for WB/ PLC Controller	0	0	3	2	4	0	0	0	0	9	0	0	3	3	8	0	0	0	0	14
34	RS232 Active Splitter	0	0	3	2	4	0	0	0	0	9	0	0	3	3	8	0	0	0	0	14
35	WB (IR/ Ultrasonic) Stabilizing Sensor Pole Arrangement	0	0	9	6	12	0	0	0	0	27	0	0	9	9	24	0	0	0	0	42
36	Polycarbonate/ FRP/ GRP JB for WB	0	0	9	6	12	0	0	0	0	27	0	0	9	9	24	0	0	0	0	42
37	PLC Controller (Excluding Controllers considered in WB)	1	1	0	0	0	1	0	0	0	3	2	2	0	0	0	0	0	0	0	4
38	LED Display	1	1	3	2	4	0	0	0	0	11	2	2	3	3	8	0	0	0	0	18
39	VMD with Controller and UPS	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
40	Mounting Structure (Pole) for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
41	Outdoor Junction Box for VMD (UPS and other items)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
42	DIN Rail Mount LIU for VMD (fully loaded)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
43	Media Converter	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
44	OFC Cable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
45	Lightening Arrestor, Earthing GI Strip for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
46	3 Core Armoured Cable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
47	24 ADSS OFC Cable/ 24 CSM Fibre Cable	0	0	0	0	0	0	0	0	10000	10000	0	0	0	0	0	0	0	0	10000	10000
48	Poles for OFC cable laying including concrete foundation	0	0	0	0	0	0	0	0	220	220	0	0	0	0	0	0	0	0	220	220
49	Lightening Arrestor, Surge Protection Device and Chemical Earthing	1	1	3	2	4	1	2	1	0	15	2	2	3	3	8	0	1	1	0	20
50	Network Management System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	4	1	2	1	1	16	2	2	3	3	8	0	1	1	1	21
51	Video Wall (2X2.55" LED Display) + Software + Controller	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
52	CCC Operator PC	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	6	0	6
53	42U Rack (Network)	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
54	General Server	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3
55	PAS Operator Console	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
56	PAS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
57	PAS Local Sub-System—Horn Speaker	1	1	3	2	4	1	2	0	0	14	2	2	3	3	8	0	1	0	0	19
58	PAS Local Sub-System—IP Amplifier	1	1	3	2	4	1	2	0	0	14	2	2	3	3	8	0	1	0	0	19
59	PAS Local Sub-System—Control Desk	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
60	Variable Message Signboard Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
61	SVDS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
62	SVD Camera	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
63	External IR Illuminator	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
64	Local Processing Unit (LPU) for ANPR & SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
65	Speed Detection Software Module (As per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
66	ANPR Software Module (as per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
67	6U Pole Mount Junction Box for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
68	Rack Mount LIU (fully loaded) for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
69	6 Meter GI Cantilever Pole (for SVD) along with foundation, Lightning Arrestor, Earthing with GIS Strip, Earth Cable for LA	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
70	Fire Alarm & Suppression System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
71	Rodent Repellant System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
72	Video Management Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
73	Storage (300 TB)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
74	CCC Interior Design for (6-Seater)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1

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		IN Gate	OUT Gate	Production WB(Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB(Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	4	1	2	1	1	16	2	2	3	3	8	0	1	1	1	21
75	Antivirus Software (Server, PC at CCC) Subscription	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	9	0	9
76	A4 Laser Printer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
77	Desktop Fixed Long Range UHF RFID Reader & Writer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
78	Access Control System and accessories	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
79	Water Leak Detection System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
80	QR Code Reader/ Scanner	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
81	Pole for QR Code Reader/ Scanner	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
82	Handheld device at Loading/ Stock Yard	1	0	0	0	0	0	2	0	0	3	2	0	0	0	0	0	1	0	0	3
83	Wifi Access Point	1	0	0	0	0	0	2	0	0	3	2	0	0	0	0	0	1	0	0	3
84	Thermal Printer	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
85	FRP/GRP Pole Mount JB	1	1	3	2	4	1	2	0	0	14	2	2	3	3	8	0	1	0	0	19
86	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
87	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
88	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
89	PVC Perimeter Trunking- PVC Casing Capping for internal wiring	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
90	PVC Perimeter Trunking- Internal electrical and networking work within local control room	1	1	3	2	4	1	0	0	0	12	2	2	3	3	8	0	0	0	0	18
91	Emergency Call Box (ECB) and associated licenses at field	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	1	0	0	1
92	Network SPD, CAT 6	0	0	0	0	0	0	0	0	112	112	0	0	0	0	0	0	0	0	152	152
93	IR Through Beam Sensors (WB & Boom Barrier)	2	2	24	16	32	2	0	0	0	78	4	4	24	24	64	0	0	0	0	120
94	12/24 VDC Power Supply for IR Through Beam Sensor	1	1	6	4	8	1	0	0	0	21	2	2	6	6	16	0	0	0	0	32
95	RFID Tags	0	0	0	0	0	0	0	0	2000	2000	0	0	0	0	0	0	0	0	2000	2000

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	3	0	3	1	1	15	1	1	1	1	1	0	1	0	1	7
	Components																				
1	24 Port L3 Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
2	8 Port L2 PoE + Switch (Industrial)	1	1	3	2	3	0	3	0	0	13	1	1	1	1	1	0	1	0	0	6
3	8 Port L2 PoE + Switch (Indoor)	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
4	6U Wall Mount Indoor Rack with one fixed shelf	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
5	24 Port L2 PoE + Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
6	UTP Cable	125	125	600	400	600	0	300	1000	0	3150	125	125	200	200	200	0	100	0	0	950
7	Fully Loaded Jack Panel	1	1	3	2	3	0	3	2	0	15	1	1	1	1	1	0	1	0	0	6
8	CAT 6 IO	5	5	24	16	24	0	0	40	0	114	5	5	8	8	8	0	0	0	0	34
9	Face Plate	5	5	24	16	24	0	0	40	0	114	5	5	8	8	8	0	0	0	0	34
10	1 Mtr. UTP Patchcord	5	5	24	16	24	0	0	40	0	114	5	5	8	8	8	0	0	0	0	34
11	2 Mtr. UTP Patchcord	5	5	24	16	24	0	0	40	0	114	5	5	8	8	8	0	0	0	0	34
12	SM Fibre Patchcord	0	0	0	0	0	0	0	8	26	34	0	0	0	0	0	0	0	0	12	12
13	Dome Camera	1	1	3	2	3	0	0	4	0	14	1	1	1	1	1	0	0	0	0	5
14	Bullet Camera	2	2	6	4	6	0	0	0	0	20	2	2	2	2	2	0	0	0	0	10
15	PTZ Camera	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	1	0	0	1
16	24 Port LIU	1	1	3	2	3	0	3	2	0	15	1	1	1	1	1	0	1	0	0	6
17	Outer Junction BOX	1	1	3	2	3	0	3	0	0	13	1	1	1	1	1	0	1	0	0	6
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	1	1	3	2	3	0	3	0	0	13	1	1	1	1	1	0	1	0	0	6
19	24F Joint Enclosure	1	1	3	2	3	0	3	0	0	13	1	1	1	1	1	0	1	0	0	6
20	Manhole	1	1	3	2	3	0	3	0	7	20	1	1	1	1	1	0	1	0	7	13
21	10KVA UPS (n+1)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
22	2KVA UPS	1	1	3	2	3	0	3	0	2	15	1	1	1	1	1	0	1	0	2	8
23	Fixed Long Range UHF RFID Reader	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
24	6 Meter GI Cantilever Pole (for FRID) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
25	FRP/GRP/MS Pole Mount JB, Min. for RFID System	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
27	Traffic Light	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
28	Motorized Boom Barrier with 3/3.5 Meter Arm, IP Based	0	0	3	2	3	0	0	0	0	8	0	0	1	1	1	0	0	0	0	3
29	IR Beam Sensor Mounting Pole arrangement	2	2	6	4	6	0	0	0	0	20	2	2	2	2	2	0	0	0	0	10
30	Polycarbonate/FRP/GRP JB for Boom Barrier	2	2	6	4	6	0	0	0	0	20	2	2	2	2	2	0	0	0	0	10

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	3	0	3	1	1	15	1	1	1	1	1	0	1	0	1	7
31	Manual Control Console (Boom Barrier, Traffic Signal)	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
32	Active LED Display with intelligent controller	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
33	Intelligent Controller for WB/ PLC Controller	0	0	3	2	3	0	0	0	0	8	0	0	1	1	1	0	0	0	0	3
34	RS232 Active Splitter	0	0	3	2	3	0	0	0	0	8	0	0	1	1	1	0	0	0	0	3
35	WB (IR/ Ultrasonic) Stabilizing Sensor Pole Arrangement	0	0	9	6	9	0	0	0	0	24	0	0	3	3	3	0	0	0	0	9
36	Polycarbonate/ FRP/ GRP JB for WB	0	0	9	6	9	0	0	0	0	24	0	0	3	3	3	0	0	0	0	9
37	PLC Controller (Excluding Controllers considered in WB)	1	1	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	2
38	LED Display	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
39	VMD with Controller and UPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Mounting Structure (Pole) for VMD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Outdoor Junction Box for VMD (UPS and other items)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	DIN Rail Mount LIU for VMD (fully loaded)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Media Converter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	OFC Cable for VMD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Lightening Arrestor, Earthing GI Strip for VMD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	3 Core Armoured Cable for VMD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	24 ADSS OFC Cable/ 24CSM Fibre Cable	0	0	0	0	0	0	0	0	12000	12000	0	0	0	0	0	0	0	0	4000	4000
48	Poles for OFC cable laying including concrete foundation	0	0	0	0	0	0	0	0	260	260	0	0	0	0	0	0	0	0	100	100
49	Lightening Arrestor, Surge Protection Device and Chemical Earthing	1	1	3	2	3	0	3	1	0	14	1	1	1	1	1	0	1	0	0	6
50	Network Management System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
51	Video Wall (2X2.55" LED Display) + Software + Controller	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
52	CCC Operator PC	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0
53	42U Rack (Network)	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
54	General Server	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0
55	PAS Operator Console	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
56	PAS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
57	PAS Local Sub-System—Horn Speaker	1	1	3	2	3	0	3	0	0	13	1	1	1	1	1	0	1	0	0	6
58	PAS Local Sub-System—IP Amplifier	1	1	3	2	3	0	3	0	0	13	1	1	1	1	1	0	1	0	0	6
59	PAS Local Sub-System—Control Desk	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
60	Variable Message Signboard Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
61	SVDS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0

		Jilling										Apahatu									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	3	0	3	1	1	15	1	1	1	1	1	0	1	0	1	7
62	SVD Camera	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
63	External IR Illuminator	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
64	Local Processing Unit (LPU) for ANPR & SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
65	Speed Detection Software Module (As per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
66	ANPR Software Module (as per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
67	6U Pole Mount Junction Box for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
68	Rack Mount LIU (fully loaded) for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
69	6 Meter GI Cantilever Pole (for SVD) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
70	Fire Alarm & Suppression System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
71	Rodent Repellant System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
72	Video Management Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
73	Storage (300 TB)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
74	CCC Interior Design for (6-Seater)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
75	Antivirus Software (Server, PC at CCC) Subscription	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	0	0	0
76	A4 Laser Printer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
77	Desktop Fixed Long Range UHF RFID Reader & Writer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
78	Access Control System and accessories	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
79	Water Leak Detection System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
80	QR Code Reader/ Scanner	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
81	Pole for QR Code Reader/ Scanner	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
82	Handheld device at Loading/ Stock Yard	1	0	0	0	0	0	3	0	0	4	1	0	0	0	0	0	1	0	0	2
83	Wifi Access Point	1	0	0	0	0	0	3	0	0	4	1	0	0	0	0	0	1	0	0	2
84	Thermal Printer	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
85	FRP/GRP Pole Mount JB	1	1	3	2	3	0	3	0	0	13	1	1	1	1	1	0	1	0	0	6
86	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
87	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
88	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
89	PVC Perimeter Trunking- PVC Casing Capping for internal wiring	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5
90	PVC Perimeter Trunking- Internal electrical and networking work within local control room	1	1	3	2	3	0	0	0	0	10	1	1	1	1	1	0	0	0	0	5

		Jilling										Apahatu									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	3	2	3	0	3	1	1	15	1	1	1	1	1	0	1	0	1	7
91	Emergency Call Box (ECB) and associated licenses at field	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1
92	Network SPD, CAT 6	0	0	0	0	0	0	0	0	96	96	0	0	0	0	0	0	0	0	48	48
93	IR Through Beam Sensors (WB & Boom Barrier)	2	2	24	16	24	0	0	0	0	68	2	2	8	8	8	0	0	0	0	28
94	12/24 VDC Power Supply for IR Through Beam Sensor	1	1	6	4	6	0	0	0	0	18	1	1	2	2	2	0	0	0	0	8
95	RFID Tags	0	0	0	0	0	0	0	0	2000	2000	0	0	0	0	0	0	0	0	1000	1000

		Dubuna										Kodingamali										
		IN Gate	OUT Gate	Production WB (Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	
	Number of locations	2	2	2	2	4	1	2	1	1	17	1	1	2	1	1	1	1	1	1	10	
	Components																					
1	24 Port L3 Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2	
2	8Port L2 PoE+ Switch (Industrial)	2	2	2	2	4	1	2	0	0	15	1	1	2	1	1	1	1	0	0	8	
3	8Port L2 PoE+ Switch (Indoor)	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
4	6U Wall Mount Indoor Rack with one fixed shelf	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
5	24 Port L2 PoE+ Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2	
6	UTP Cable	250	250	400	400	800	200	200	1000	0	3500	125	125	400	200	200	200	100	1000	0	2350	
7	Fully Loaded Jack Panel	2	2	2	2	4	1	2	2	0	17	1	1	2	1	1	1	1	2	0	10	
8	CAT 6 IO	10	10	16	16	32	8	0	40	0	132	5	5	16	8	8	8	0	40	0	90	
9	FacePlate	10	10	16	16	32	8	0	40	0	132	5	5	16	8	8	8	0	40	0	90	
10	1Mtr. UTP Patchcord	10	10	16	16	32	8	0	40	0	132	5	5	16	8	8	8	0	40	0	90	
11	2Mtr. UTP Patchcord	10	10	16	16	32	8	0	40	0	132	5	5	16	8	8	8	0	40	0	90	
12	SM Fibre Patchcord	0	0	0	0	0	0	0	8	30	38	0	0	0	0	0	0	0	8	16	24	
13	Dome Camera	2	2	2	2	4	1	0	4	0	17	1	1	2	1	1	1	0	4	0	11	
14	Bullet Camera	4	4	4	4	8	2	0	0	0	26	2	2	4	2	2	2	0	0	0	14	
15	PTZ Camera	0	0	0	0	0	1	2	1	0	4	0	0	0	0	0	1	1	1	0	3	
16	24 Port LIU	2	2	2	2	4	1	2	2	0	17	1	1	2	1	1	1	1	2	0	10	
17	Outer Junction BOX	2	2	2	2	4	1	2	0	0	15	1	1	2	1	1	1	1	0	0	8	
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	2	2	2	2	4	1	2	0	0	15	1	1	2	1	1	1	1	0	0	8	
19	24F Joint Enclosure	2	2	2	2	4	1	2	0	0	15	1	1	2	1	1	1	1	0	0	8	
20	Manhole	2	2	2	2	4	1	2	0	7	22	1	1	2	1	1	1	1	0	7	15	
21	10KVA UPS (n+1)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
22	2 KVA UPS	2	2	2	2	4	1	2	0	2	17	1	1	2	1	1	1	1	0	2	10	
23	Fixed Long Range UHF RFID Reader	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
24	6Meter GI Cantilever Pole (for FRID) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
25	FRP/GRP/MS Pole Mount JB, Min. for RFID System	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	
27	Traffic Light	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
28	Motorized Boom Barrier with 3/3.5 Meter Arm, IP Based	2	2	2	2	4	1	0	0	0	13	0	1	2	1	1	1	0	0	0	6	
29	IR Beam Sensor Mounting Pole arrangement	4	4	4	4	8	2	0	0	0	26	2	2	4	2	2	2	0	0	0	14	

		Dubuna										Kodingamali										
		IN Gate	OUT Gate	Production WB (Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross &Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	
	Number of locations	2	2	2	2	4	1	2	1	1	17	1	1	2	1	1	1	1	1	1	10	
30	Polycarbonate/ FRP/ GRP JB for Boom Barrier	4	4	4	4	8	2	0	0	0	26	2	2	4	2	2	2	0	0	0	14	
31	Manual Control Console (Boom Barrier, Traffic Signal)	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
32	Active LED Displaywith intelligent controller	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
33	Intelligent Controller for WB/ PLC Controller	0	0	2	2	4	0	0	0	0	8	0	0	2	1	1	0	0	0	0	4	
34	RS232 Active Splitter	0	0	2	2	4	0	0	0	0	8	0	0	2	1	1	0	0	0	0	4	
35	WB (IR/ Ultrasonic) Stabilizing Sensor PoleArrangement	0	0	6	6	12	0	0	0	0	24	0	0	6	3	3	0	0	0	0	12	
36	Polycarbonate/ FRP/ GRP JB for WB	0	0	6	6	12	0	0	0	0	24	0	0	6	3	3	0	0	0	0	12	
37	PLC Controller (Excluding Controllers considered in WB)	2	2	0	0	0	1	0	0	0	5	1	1	0	0	0	1	0	0	0	3	
38	LED Display	2	2	2	2	4	0	0	0	0	12	1	1	2	1	1	0	0	0	0	6	
39	VMDwith Controller and UPS	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
40	Mounting Structure (Pole) for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
41	Outdoor Junction Box for VMD (UPSand other items)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
42	DIN Rail Mount LIU for VMD (fully loaded)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
43	Media Converter	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
44	OFCCable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
45	Lightening Arrestor, Earthing GI Strip for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
46	3 Core Armoured Cable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
47	24ADSS OFC Cable/ 24CSM Fibre Cable	0	0	0	0	0	0	0	0	3000	3000	0	0	0	0	0	0	0	0	8000	8000	
48	Poles for OFC cable laying including concrete foundation	0	0	0	0	0	0	0	0	80	80	0	0	0	0	0	0	0	0	180	180	
49	Lightening Arrestor, Surge Protection Device and Chemical Earthing	2	2	2	2	4	1	2	1	0	16	1	1	2	1	1	1	1	1	0	9	
50	Network Management System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
51	Video Wall (2X2.55" LED Display)+ Software+ Controller	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
52	CCC Operator PC	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	6	0	6	
53	42U Rack (Network)	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2	
54	General Server	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3	
55	PAS Operator Console	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
56	PAS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	

		Dubuna										Kodingamali										
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	
	Number of locations	2	2	2	2	4	1	2	1	1	17	1	1	2	1	1	1	1	1	1	10	
57	PAS Local Sub-System—Horn Speaker	2	2	2	2	4	1	2	0	0	15	1	1	2	1	1	1	1	0	0	8	
58	PAS Local Sub-System— IP Amplifier	2	2	2	2	4	1	2	0	0	15	1	1	2	1	1	1	1	0	0	8	
59	PAS Local Sub-System— Control Desk	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
60	Variable Message Signboard Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
61	SVDS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
62	SVD Camera	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
63	External IR Illuminator	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
64	Local Processing Unit (LPU) for ANPR& SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
65	Speed Detection Software Module (As per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
66	ANPR Software Module (as per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
67	6U Pole Mount Junction Box for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
68	Rack Mount LIU (fully loaded) for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
69	6Meter GI Cantilever Pole (for SVD) along with foundation, Lightning Arrestor, Earthing with GIS Strip, Earth Cable for LA	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
70	Fire Alarm & Suppression System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
71	Rodent Repellant System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
72	Video Management Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
73	Storage (300TB)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
74	CCC Interior Design for (6-Seater)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
75	Antivirus Software (Server, PC at CCC) Subscription	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	9	0	9	
76	A4 Laser Printer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
77	Desktop Fixed Long Range UHF RFID Reader & Writer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
78	Access Control System and accessories	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2	
79	Water Leak Detection System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	
80	QR Code Reader/ Scanner	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
81	Pole for QR Code Reader/ Scanner	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
82	Handheld device at Loading/ Stock Yard	2	0	0	0	0	0	2	0	0	4	1	0	0	0	0	0	1	0	0	2	
83	Wifi Access Point	2	0	0	0	0	0	2	0	0	4	1	0	0	0	0	0	1	0	0	2	
84	Thermal Printer	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	
85	FRP/GRP Pole Mount JB	2	2	2	2	4	1	2	0	0	15	1	1	2	1	1	1	1	0	0	8	
86	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	

		Dubuna										Kodingamali										
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	
	Number of locations	2	2	2	2	4	1	2	1	1	17	1	1	2	1	1	1	1	1	1	10	
87	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
88	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
89	PVC Perimeter Trunking- PVC Casing Capping for internal wiring	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
90	PVC Perimeter Trunking- Internal electrical and networking work within local control room	2	2	2	2	4	1	0	0	0	13	1	1	2	1	1	1	0	0	0	7	
91	Emergency Call Box (ECB) and associated licenses at field	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	1	1	0	0	2	
92	Network SPD, CAT 6	0	0	0	0	0	0	0	0	120	120	0	0	0	0	0	0	0	0	68	68	
93	IR Through Beam Sensors (WB & Boom Barrier)	4	4	16	16	32	2	0	0	0	74	2	2	16	8	8	2	0	0	0	38	
94	12/24 VDC Power Supply for IR Through Beam Sensor	2	2	4	4	8	1	0	0	0	21	1	1	4	2	2	1	0	0	0	11	
95	RFID Tags	0	0	0	0	0	0	0	0	2000	2000	0	0	0	0	0	0	0	0	1000	1000	

		Tiringpahad										Udhabali									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	1	1	0	1	1	1	1	8	1	1	2	1	1	1	1	1	1	10
	Components									Tiringpahad											
1	24 Port L3 Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
2	8 Port L2 PoE + Switch (Industrial)	1	1	1	1	0	1	1	0	0	6	1	1	2	1	1	1	1	0	0	8
3	8 Port L2 PoE + Switch (Indoor)	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
4	6U Wall Mount Indoor Rack with one fixed shelf	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
5	24 Port L2 PoE + Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
6	UTP Cable	125	125	200	200	0	200	100	1000	0	1950	125	125	400	200	200	200	100	1000	0	2350
7	Fully Loaded Jack Panel	1	1	1	1	0	1	1	2	0	8	1	1	2	1	1	1	1	2	0	10
8	CAT 6 IO	5	5	8	8	0	8	0	40	0	74	5	5	16	8	8	8	0	40	0	90
9	Face Plate	5	5	8	8	0	8	0	40	0	74	5	5	16	8	8	8	0	40	0	90
10	1 Mtr. UTP Patchcord	5	5	8	8	0	8	0	40	0	74	5	5	16	8	8	8	0	40	0	90
11	2 Mtr. UTP Patchcord	5	5	8	8	0	8	0	40	0	74	5	5	16	8	8	8	0	40	0	90
12	SM Fibre Patchcord	0	0	0	0	0	0	0	8	16	24	0	0	0	0	0	0	0	8	16	24
13	Dome Camera	1	1	1	1	0	1	0	4	0	9	1	1	2	1	1	1	0	4	0	11
14	Bullet Camera	2	2	2	2	0	2	0	0	0	10	2	2	4	2	2	2	0	0	0	14
15	PTZ Camera	0	0	0	0	0	1	1	1	0	3	0	0	0	0	0	1	1	1	0	3
16	24 Port LIU	1	1	1	1	0	1	1	2	0	8	1	1	2	1	1	1	1	2	0	10
17	Outer Junction BOX	1	1	1	1	0	1	1	0	0	6	1	1	2	1	1	1	1	0	0	8
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	1	1	1	1	0	1	1	0	0	6	1	1	2	1	1	1	1	0	0	8
19	24F Joint Enclosure	1	1	1	1	0	1	1	0	0	6	1	1	2	1	1	1	1	0	0	8
20	Manhole	1	1	1	1	0	1	1	0	7	13	1	1	2	1	1	1	1	0	7	15
21	10KVA UPS (n+1)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
22	2KVA UPS	1	1	1	1	0	1	1	0	2	8	1	1	2	1	1	1	1	0	2	10
23	Fixed Long Range UHF RFID Reader	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
24	6 Meter GI Cantilever Pole (for FRID) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
25	FRP/GRP/MS Pole Mount JB, Min. for RFID System	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
27	Traffic Light	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
28	Motorized Boom Barrier with 3/ 3.5 Meter Arm, IP Based	0	1	1	1	0	1	0	0	0	4	1	1	2	1	1	1	0	0	0	7

		Tiringohad										Udhabali									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	1	1	0	1	1	1	1	8	1	1	2	1	1	1	1	1	1	10
29	IR Beam Sensor Mounting Pole arrangement	2	2	2	2	0	2	0	0	0	10	2	2	4	2	2	2	0	0	0	14
30	Polycarbonate/ FRP/ GRP JB for Boom Barrier	2	2	2	2	0	2	0	0	0	10	2	2	4	2	2	2	0	0	0	14
31	Manual Control Console (Boom Barrier, Traffic Signal)	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
32	Active LED Display with intelligent controller	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
33	Intelligent Controller for WB/ PLC Controller	0	0	1	1	0	0	0	0	0	2	0	0	2	1	1	0	0	0	0	4
34	RS232 Active Splitter	0	0	1	1	0	0	0	0	0	2	0	0	2	1	1	0	0	0	0	4
35	WB (IR/ Ultrasonic) Stabilizing Sensor Pole Arrangement	0	0	3	3	0	0	0	0	0	6	0	0	6	3	3	0	0	0	0	12
36	Polycarbonate/ FRP/ GRP JB for WB	0	0	3	3	0	0	0	0	0	6	0	0	6	3	3	0	0	0	0	12
37	PLC Controller (Excluding Controllers considered in WB)	1	1	0	0	0	1	0	0	0	3	1	1	0	0	0	1	0	0	0	3
38	LED Display	1	1	1	1	0	0	0	0	0	4	1	1	2	1	1	0	0	0	0	6
39	VMD with Controller and UPS	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
40	Mounting Structure (Pole) for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
41	Outdoor Junction Box for VMD (UPS and other items)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
42	DIN Rail Mount LIU for VMD (fully loaded)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
43	Media Converter	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
44	OFC Cable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
45	Lightening Arrestor, Earthing GI Strip for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
46	3 Core Armoured Cable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
47	24 ADSS OFC Cable/ 24 CSM Fibre Cable	0	0	0	0	0	0	0	0	3000	3000	0	0	0	0	0	0	0	0	6000	6000
48	Poles for OFC cable laying including concrete foundation	0	0	0	0	0	0	0	0	80	80	0	0	0	0	0	0	0	0	140	140
49	Lightening Arrestor, Surge Protection Device and Chemical Earthing	1	1	1	1	0	1	1	1	0	7	1	1	2	1	1	1	1	1	0	9
50	Network Management System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
51	Video Wall (2X2.55" LED Display) + Software + Controller	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1

		Tiringohad										Udabali									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	1	1	0	1	1	1	1	8	1	1	2	1	1	1	1	1	1	10
52	CCC Operator PC	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	6	0	6
53	42U Rack (Network)	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
54	General Server	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3
55	PAS Operator Console	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
56	PAS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
57	PAS Local Sub-System—Horn Speaker	1	1	1	1	0	1	1	0	0	6	1	1	2	1	1	1	1	0	0	8
58	PAS Local Sub-System—IP Amplifier	1	1	1	1	0	1	1	0	0	6	1	1	2	1	1	1	1	0	0	8
59	PAS Local Sub-System—Control Desk	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
60	Variable Message Signboard Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
61	SVDS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
62	SVD Camera	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
63	External IR Illuminator	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
64	Local Processing Unit (LPU) for ANPR & SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
65	Speed Detection Software Module (As per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
66	ANPR Software Module (as per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
67	6U Pole Mount Junction Box for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
68	Rack Mount LIU (fully loaded) for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
69	6 Meter GI Cantilever Pole (for SVD) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
70	Fire Alarm & Suppression System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
71	Rodent Repellant System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
72	Video Management Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
73	Storage (300 TB)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
74	CCC Interior Design for (6-Seater)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
75	Antivirus Software (Server, PC at CCC) Subscription	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	9	0	9
76	A4 Laser Printer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
77	Desktop Fixed Long Range UHF RFID Reader & Writer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1

		Tiringohad										Udhabali									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	1	1	0	1	1	1	1	8	1	1	2	1	1	1	1	1	1	10
78	Access Control System and accessories	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
79	Water Leak Detection System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
80	QR Code Reader/ Scanner	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
81	Pole for QR Code Reader/ Scanner	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
82	Handheld device at Loading/ Stock Yard	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	1	0	0	2
83	Wifi Access Point	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	1	0	0	2
84	Thermal Printer	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
85	FRP/GRP Pole Mount JB	1	1	1	1	0	1	1	0	0	6	1	1	2	1	1	1	1	0	0	8
86	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
87	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
88	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
89	PVC Perimeter Trunking- PVC Casing Capping for internal wiring	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
90	PVC Perimeter Trunking- Internal electrical and networking work within local control room	1	1	1	1	0	1	0	0	0	5	1	1	2	1	1	1	0	0	0	7
91	Emergency Call Box (ECB) and associated licenses at field	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	1	1	0	0	2
92	Network SPD, CAT 6	0	0	0	0	0	0	0	0	52	52	0	0	0	0	0	0	0	0	68	68
93	IR Through Beam Sensors (WB & Boom Barrier)	2	2	8	8	0	2	0	0	0	22	2	2	16	8	8	2	0	0	0	38
94	12/24 VDC Power Supply for IR Through Beam Sensor	1	1	2	2	0	1	0	0	0	7	1	1	4	2	2	1	0	0	0	11
95	RFID Tags	0	0	0	0	0	0	0	0	1000	1000	0	0	0	0	0	0	0	0	1000	1000

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	1	2	1	1	1	1	11	1	1	2	1	2	1	1	1	1	11
	Components																				
1	24 Port L3 Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
2	8 Port L2 PoE + Switch (Industrial)	1	1	2	1	2	1	1	0	0	9	1	1	2	1	2	1	1	0	0	9
3	8 Port L2 PoE + Switch (Indoor)	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
4	6U Wall Mount Indoor Rack with one fixed shelf	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
5	24 Port L2 PoE + Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
6	UTP Cable	125	125	400	200	400	200	100	100	0	2550	125	125	400	200	400	200	100	100	0	2550
7	Fully Loaded Jack Panel	1	1	2	1	2	1	1	2	0	11	1	1	2	1	2	1	1	2	0	11
8	CAT6 IO	5	5	16	8	16	8	0	40	0	98	5	5	16	8	16	8	0	40	0	98
9	FacePlate	5	5	16	8	16	8	0	40	0	98	5	5	16	8	16	8	0	40	0	98
10	1 Mtr. UTP Patchcord	5	5	16	8	16	8	0	40	0	98	5	5	16	8	16	8	0	40	0	98
11	2 Mtr. UTP Patchcord	5	5	16	8	16	8	0	40	0	98	5	5	16	8	16	8	0	40	0	98
12	5M Fibre Patchcord	0	0	0	0	0	0	0	8	18	26	0	0	0	0	0	0	0	8	18	26
13	Dome Camera	1	1	2	1	2	1	0	4	0	12	1	1	2	1	2	1	0	4	0	12
14	Bullet Camera	2	2	4	2	4	2	0	0	0	16	2	2	4	2	4	2	0	0	0	16
15	PTZ Camera	0	0	0	0	0	1	1	1	0	3	0	0	0	0	0	1	1	1	0	3
16	24 Port LIU	1	1	2	1	2	1	1	2	0	11	1	1	2	1	2	1	1	2	0	11
17	Outer Junction BOX	1	1	2	1	2	1	1	0	0	9	1	1	2	1	2	1	1	0	0	9
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	1	1	2	1	2	1	1	0	0	9	1	1	2	1	2	1	1	0	0	9
19	24F Joint Enclosure	1	1	2	1	2	1	1	0	0	9	1	1	2	1	2	1	1	0	0	9
20	Manhole	1	1	2	1	2	1	1	0	7	16	1	1	2	1	2	1	1	0	7	16
21	10KVA UPS (n+1)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
22	2KVA UPS	1	1	2	1	2	1	1	0	2	11	1	1	2	1	2	1	1	0	2	11
23	Fixed Long Range UHF RFID Reader	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	1	2	1	1	1	1	11	1	1	2	1	2	1	1	1	1	11
24	6 Meter GI Cantilever Pole (for FRID) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
25	FRP/GRP/MS Pole Mount JB, Min. for RFID System	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
27	Traffic Light	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
28	Motorized Boom Barrier with 3/3.5 Meter Arm, IP Based	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
29	IR Beam Sensor Mounting Pole arrangement	2	2	4	2	4	2	0	0	0	16	2	2	4	2	4	2	0	0	0	16
30	Polycarbonate/FRP/GRP JB for Boom Barrier	2	2	4	2	4	2	0	0	0	16	2	2	4	2	4	2	0	0	0	16
31	Manual Control Console (Boom Barrier, Traffic Signal)	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
32	Active LED Display with intelligent controller	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
33	Intelligent Controller for WB/PLC Controller	0	0	2	1	2	0	0	0	0	5	0	0	2	1	2	0	0	0	0	5
34	RS232 Active Splitter	0	0	2	1	2	0	0	0	0	5	0	0	2	1	2	0	0	0	0	5
35	WB (IR/Ultrasonic) Stabilizing Sensor Pole Arrangement	0	0	6	3	6	0	0	0	0	15	0	0	6	3	6	0	0	0	0	15
36	Polycarbonate/FRP/GRP JB for WB	0	0	6	3	6	0	0	0	0	15	0	0	6	3	6	0	0	0	0	15
37	PLC Controller (Excluding Controllers considered in WB)	1	1	0	0	0	1	0	0	0	3	1	1	0	0	0	1	0	0	0	3
38	LED Display	1	1	2	1	2	0	0	0	0	7	1	1	2	1	2	0	0	0	0	7
39	VMD with Controller and UPS	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
40	Mounting Structure (Pole) for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
41	Outdoor Junction Box for VMD (UPS and other items)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
42	DIN Rail Mount LIU for VMD (fully loaded)	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	1	2	1	1	1	1	11	1	1	2	1	2	1	1	1	1	11
43	Media Converter	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
44	OFC Cable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
45	Lightening Arrestor, Earthing GI Strip for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
46	3 Core Armoured Cable for VMD	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
47	24 ADS OFC Cable/ 24 CSM Fibre Cable	0	0	0	0	0	0	0	0	6000	6000	0	0	0	0	0	0	0	0	6000	6000
48	Poles for OFC cable laying including concrete foundation	0	0	0	0	0	0	0	0	140	140	0	0	0	0	0	0	0	0	140	140
49	Lightening Arrestor, Surge Protection Device and Chemical Earthing	1	1	2	1	2	1	1	1	0	10	1	1	2	1	2	1	1	1	0	10
50	Network Management System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
51	Video Wall (2X2.55" LED Display) + Software + Controller	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
52	CCC Operator PC	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	6	0	6
53	42U Rack (Network)	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
54	General Server	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3
55	PAS Operator Console	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
56	PAS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
57	PAS Local Sub-System – Horn Speaker	1	1	2	1	2	1	1	0	0	9	1	1	2	1	2	1	1	0	0	9
58	PAS Local Sub-System – IP Amplifier	1	1	2	1	2	1	1	0	0	9	1	1	2	1	2	1	1	0	0	9
59	PAS Local Sub-System – Control Desk	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
60	Variable Message Signboard Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
61	SVD Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
62	SVD Camera	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	1	2	1	1	1	1	11	1	1	2	1	2	1	1	1	1	11
63	External IR Illuminator	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
64	Local Processing Unit (LPU) for ANPR & SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
65	Speed Detection Software Module (As per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
66	ANPR Software Module (as per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
67	6U Pole Mount Junction Box for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
68	Rack Mount LIU (fully loaded) for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
69	6 Meter GI Cantilever Pole (for SVD) along with foundation, Lightning Arrestor, Earthing with GIS Strip, Earth Cable for LA	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
70	Fire Alarm & Suppression System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
71	Rodent Repellant System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
72	Video Management Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
73	Storage (300 TB)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
74	CCC Interior Design for (6-Seater)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
75	Antivirus Software (Server, PC at CCC) Subscription	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	9	0	9
76	A4 Laser Printer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
77	Desktop Fixed Long Range UHF RFID Reader & Writer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
78	Access Control System and accessories	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
79	Water Leak Detection System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
80	QR Code Reader/ Scanner	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
81	Pole for QR Code Reader/ Scanner	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
82	Handheld device at Loading/ Stock Yard	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	1	0	0	2

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		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	1	2	1	1	1	1	11	1	1	2	1	2	1	1	1	1	11
83	Wifi Access Point	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	1	0	0	2
84	Thermal Printer	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
85	FRP/GRP Pole Mount JB	1	1	2	1	2	1	1	0	0	9	1	1	2	1	2	1	1	0	0	9
86	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
87	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
88	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
89	PVC Perimeter Trunking- PVC Casing Capping for internal wiring	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
90	PVC Perimeter Trunking- Internal electrical and networking work within local control room	1	1	2	1	2	1	0	0	0	8	1	1	2	1	2	1	0	0	0	8
91	Emergency Call Box (ECB) and associated licenses at field	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	1	1	0	0	2
92	Network SPD, CAT 6	0	0	0	0	0	0	0	0	76	76	0	0	0	0	0	0	0	0	76	76
93	IR Through Beam Sensors (WB & Boom Barrier)	2	2	16	8	16	2	0	0	0	46	2	2	16	8	16	2	0	0	0	46
94	12/24 VDC Power Supply for IR Through Beam Sensor	1	1	4	2	4	1	0	0	0	13	1	1	4	2	4	1	0	0	0	13
95	RFID Tags	0	0	0	0	0	0	0	0	1000	1000	0	0	0	0	0	0	0	0	1000	1000

		South Kaliapani										Bangur									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	4	3	2	1	1	1	16	1	1	0	0	1	1	2	1	1	8
	Components																				
1	24 Port L3 Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
2	8 Port L2 PoE+ Switch (Industrial)	1	1	2	4	3	2	1	0	0	14	1	1	0	0	1	1	2	0	0	6
3	8 Port L2 PoE+ Switch (Indoor)	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
4	6U Wall Mount Indoor Rack with one fixed shelf	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
5	24 Port L2 PoE+ Switch	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
6	UTP Cable	125	125	250	500	375	400	100	1000	0	2875	125	125	0	0	200	200	200	1000	0	1850
7	Fully Loaded Jack Panel	1	1	2	4	3	2	1	2	0	16	1	1	0	0	1	1	2	2	0	8
8	CAT 6 IO	5	5	16	32	24	16	0	40	0	138	5	5	0	0	8	8	0	40	0	66
9	Face Plate	5	5	16	32	24	16	0	40	0	138	5	5	0	0	8	8	0	40	0	66
10	1 Mtr. UTP Patchcord	5	5	16	32	24	16	0	40	0	138	5	5	0	0	8	8	0	40	0	66
11	2 Mtr. UTP Patchcord	5	5	16	32	24	16	0	40	0	138	5	5	0	0	8	8	0	40	0	66
12	SM Fibre Patchcord	0	0	0	0	0	0	0	8	26	34	0	0	0	0	0	0	0	8	12	20
13	Dome Camera	1	1	2	4	3	2	0	4	0	17	1	1	0	0	1	1	0	4	0	8
14	Bullet Camera	2	2	4	8	6	4	0	0	0	26	2	2	0	0	2	2	0	0	0	8
15	PTZ Camera	0	0	0	0	0	2	1	1	0	4	0	0	0	0	0	1	2	1	0	4
16	24 Port LIU	1	1	2	4	3	2	1	2	0	16	1	1	0	0	1	1	2	2	0	8
17	Outer Junction BOX	1	1	2	4	3	2	1	0	0	14	1	1	0	0	1	1	2	0	0	6
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	1	1	2	4	3	2	1	0	0	14	1	1	0	0	1	1	2	0	0	6
19	24F Joint Enclosure	1	1	2	4	3	2	1	0	0	14	1	1	0	0	1	1	2	0	0	6
20	Manhole	1	1	2	4	3	2	1	0	7	21	1	1	0	0	1	1	2	0	7	13
21	10 KVA UPS (n+1)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
22	2 KVA UPS	1	1	2	4	3	2	1	0	2	16	1	1	0	0	1	1	2	0	2	8
23	Fixed Long Range UHF RFID Reader	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
24	6 Meter GI Cantilever Pole (for RFID) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
25	FRP/GRP/IVS Pole Mount JB, Min. for RFID System	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
27	Traffic Light	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
28	Motorized Boom Barrier with 3/3.5 Meter Arm, IP Based	0	0	1	3	3	2	0	0	0	9	0	1	0	0	1	1	0	0	0	3

		South Kaliapani										Bangur									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	4	3	2	1	1	1	16	1	1	0	0	1	1	2	1	1	8
29	IR Beam Sensor/Mounting Pole arrangement	2	2	4	8	6	4	0	0	0	26	2	2	0	0	2	2	0	0	0	8
30	Polycarbonate/ FRP/GRP JB for Boom Barrier	2	2	4	8	6	4	0	0	0	26	2	2	0	0	2	2	0	0	0	8
31	Manual Control Console (Boom Barrier, Traffic Signal)	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
32	Active LED Display with intelligent controller	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
33	Intelligent Controller for WB/ PLC Controller	0	0	2	4	3	0	0	0	0	9	0	0	0	0	1	0	0	0	0	1
34	RS232 Active Splitter	0	0	2	4	3	0	0	0	0	9	0	0	0	0	1	0	0	0	0	1
35	WB (IR/ Ultrasonic) Stabilizing Sensor Pole Arrangement	0	0	6	12	9	0	0	0	0	27	0	0	0	0	3	0	0	0	0	3
36	Polycarbonate/ FRP/GRP JB for WB	0	0	6	12	9	0	0	0	0	27	0	0	0	0	3	0	0	0	0	3
37	PLC Controller (Excluding Controllers considered in WB)	1	1	0	0	0	2	0	0	0	4	1	1	0	0	0	1	0	0	0	3
38	LED Display	1	1	2	4	3	0	0	0	0	11	1	1	0	0	1	0	0	0	0	3
39	VMD with Controller and UPS	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
40	Mounting Structure (Pole) for VMD	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
41	Outdoor Junction Box for VMD (UPS and other items)	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
42	DIN Rail Mount LIU for VMD (fully loaded)	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
43	Media Converter	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
44	OFC Cable for VMD	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
45	Lightening Arrestor, Earthing GI Strip for VMD	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
46	3 Core Armoured Cable for VMD	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
47	24 ADSS OFC Cable/ 24CSM Fibre Cable	0	0	0	0	0	0	0	0	12000	12000	0	0	0	0	0	0	0	0	2000	2000
48	Poles for OFC cable laying including concrete foundation	0	0	0	0	0	0	0	0	260	260	0	0	0	0	0	0	0	0	60	60
49	Lightening Arrestor, Surge Protection Device and Chemical Earthing	1	1	2	4	3	2	1	1	0	15	1	1	0	0	1	1	2	1	0	7
50	Network Management System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
51	Video Wall (2X2.55" LED Display) + Software + Controller	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1

		South Kaliapani										Bangur									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	4	3	2	1	1	1	16	1	1	0	0	1	1	2	1	1	8
52	CCC Operator PC	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	6	0	6
53	42U Rack (Network)	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
54	General Server	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3
55	PAS Operator Console	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
56	PAS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
57	PAS Local Sub-System—Horn Speaker	1	1	2	4	3	2	1	0	0	14	1	1	0	0	1	1	2	0	0	6
58	PAS Local Sub-System—IP Amplifier	1	1	2	4	3	2	1	0	0	14	1	1	0	0	1	1	2	0	0	6
59	PAS Local Sub-System—Control Desk	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
60	Variable Message Signboard Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
61	SDS Central Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
62	SVD Camera	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
63	External IR Illuminator	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
64	Local Processing Unit (LPU) for ANPR & SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
65	Speed Detection Software Module (As per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
66	ANPR Software Module (as per design)	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
67	6U Pole Mount Junction Box for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
68	Rack Mount LIU (fully loaded) for SVD	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
69	6 Meter GI Cantilever Pole (for SVD) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
70	Fire Alarm & Suppression System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
71	Rodent Repellant System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
72	Video Management Software	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
73	Storage (300 TB)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
74	CCC Interior Design for (6-Seater)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
75	Antivirus Software (Server, PC at CCC) Subscription	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	9	0	9
76	A4 Laser Printer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
77	Desktop Fixed Long Range UHF RFID Reader & Writer	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1

		South Kaliapani										Bangur									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total	IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	2	4	3	2	1	1	1	16	1	1	0	0	1	1	2	1	1	8
78	Access Control System and accessories	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
79	Water Leak Detection System	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
80	QR Code Reader/ Scanner	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
81	Pole for QR Code Reader/ Scanner	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
82	Handheld device at Loading/ Stock Yard	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	2	0	0	3
83	Wifi Access Point	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	2	0	0	3
84	Thermal Printer	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
85	FRP/GRP Pole Mount JB	1	1	2	4	3	2	1	0	0	14	1	1	0	0	1	1	2	0	0	6
86	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
87	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
88	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
89	PVC Perimeter Trunking- PVC Casing Capping for internal wiring	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
90	PVC Perimeter Trunking- Internal electrical and networking work within local control room	1	1	2	4	3	2	0	0	0	13	1	1	0	0	1	1	0	0	0	4
91	Emergency Call Box (ECB) and associated licenses at field	0	0	0	0	0	2	1	0	0	3	0	0	0	0	0	1	2	0	0	3
92	Network SPD, CAT 6	0	0	0	0	0	0	0	0	120	120	0	0	0	0	0	0	0	0	48	48
93	IR Through Beam Sensors (WB & Boom Barrier)	2	2	16	32	24	4	0	0	0	80	2	2	0	0	8	2	0	0	0	14
94	12/24 VDC Power Supply for IR Through Beam Sensor	1	1	4	8	6	2	0	0	0	22	1	1	0	0	2	1	0	0	0	5
95	RFID Tags	0	0	0	0	0	0	0	0	2000	2000	0	0	0	0	0	0	0	0	500	500

		Sukrangi									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	0	1	1	0	3	0	1	8
	Components										
1	24 Port L3 Switch	0	0	0	0	0	0	0	0	0	0
2	8 Port L2 PoE + Switch (Industrial)	1	1	0	1	1	0	3	0	0	7
3	8 Port L2 PoE + Switch (Indoor)	1	1	0	1	1	0	0	0	0	4
4	6U Wall Mount Indoor Rack with one fixed shelf	1	1	0	1	1	0	0	0	0	4
5	24 Port L2 PoE + Switch	0	0	0	0	0	0	0	0	0	0
6	UTP Cable	125	125	0	200	200	0	300	0	0	950
7	Fully Loaded Jack Panel	1	1	0	1	1	0	3	0	0	7
8	CAT 6 IO	5	5	0	8	8	0	0	0	0	26
9	FacePlate	5	5	0	8	8	0	0	0	0	26
10	1 Mtr. UTP Patchcord	5	5	0	8	8	0	0	0	0	26
11	2 Mtr. UTP Patchcord	5	5	0	8	8	0	0	0	0	26
12	5M Fibre Patchcord	0	0	0	0	0	0	0	0	12	12
13	Dome Camera	1	1	0	1	1	0	0	0	0	4
14	Bullet Camera	2	2	0	2	2	0	0	0	0	8
15	PTZ Camera	0	0	0	0	0	0	3	0	0	3
16	24 Port LIU	1	1	0	1	1	0	3	0	0	7
17	Outer Junction BOX	1	1	0	1	1	0	3	0	0	7
18	DIN Rail Mount LIU, 6 Port Duplex, Fully Loaded	1	1	0	1	1	0	3	0	0	7
19	24F Joint Enclosure	1	1	0	1	1	0	3	0	0	7
20	Manhole	1	1	0	1	1	0	3	0	7	14
21	10 KVA UPS (n+1)	0	0	0	0	0	0	0	0	0	0
22	2 KVA UPS	1	1	0	1	1	0	3	0	2	9
23	Fixed Long Range UHF RFID Reader	1	1	0	1	1	0	0	0	0	4
24	6 Meter GI Cantilever Pole (for FRID) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	1	1	0	1	1	0	0	0	0	4
25	FRP/GRP/MS Pole Mount JB, Min. for RFID System	1	1	0	1	1	0	0	0	0	4
26	Handheld UHF RFID Reader (RFID Sled + Android Terminal)	0	0	0	0	0	0	0	0	1	1
27	Traffic Light	1	1	0	1	1	0	0	0	0	4
28	Motorized Boom Barrier with 3/3.5 Meter Arm, IP Based	0	0	0	1	1	0	0	0	0	2
29	IR Beam Sensor Mounting Pole arrangement	2	2	0	2	2	0	0	0	0	8
30	Polycarbonate/FRP/GRP JB for Boom Barrier	2	2	0	2	2	0	0	0	0	8
31	Manual Control Console (Boom Barrier, Traffic Signal)	1	1	0	1	1	0	0	0	0	4
32	Active LED Display with intelligent controller	1	1	0	1	1	0	0	0	0	4

		Sukrangi									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stodkyard	CCC	Common Infra.	Total
	Number of locations	1	1	0	1	1	0	3	0	1	8
33	Intelligent Controller for WB/ PLC Controller	0	0	0	1	1	0	0	0	0	2
34	RS232 Active Splitter	0	0	0	1	1	0	0	0	0	2
35	WB (IR/ Ultrasonic) Stabilizing Sensor Pole Arrangement	0	0	0	3	3	0	0	0	0	6
36	Polycarbonate/ FRP/ GRP JB for WB	0	0	0	3	3	0	0	0	0	6
37	PLC Controller (Excluding Controllers considered in WB)	1	1	0	0	0	0	0	0	0	2
38	LED Display	1	1	0	1	1	0	0	0	0	4
39	VMD with Controller and UPS	0	0	0	0	0	0	0	0	0	0
40	Mounting Structure (Pole) for VMD	0	0	0	0	0	0	0	0	0	0
41	Outdoor Junction Box for VMD (UPS and other items)	0	0	0	0	0	0	0	0	0	0
42	DIN Rail Mount LIU for VMD (fully loaded)	0	0	0	0	0	0	0	0	0	0
43	Media Converter	0	0	0	0	0	0	0	0	0	0
44	OFC Cable for VMD	0	0	0	0	0	0	0	0	0	0
45	Lightening Arrestor, Earthing GI Strip for VMD	0	0	0	0	0	0	0	0	0	0
46	3 Core Armoured Cable for VMD	0	0	0	0	0	0	0	0	0	0
47	24 ADSS OFC Cable/ 24C SVI Fibre Cable	0	0	0	0	0	0	0	0	8000	8000
48	Poles for OFC cable laying including concrete foundation	0	0	0	0	0	0	0	0	180	180
49	Lightening Arrestor, Surge Protection Device and Chemical Earthing	1	1	0	1	1	0	3	0	0	7
50	Network Management System	0	0	0	0	0	0	0	0	0	0
51	Video Wall (2X2.55" LED Display) + Software + Controller	0	0	0	0	0	0	0	0	0	0
52	CCC Operator PC	0	0	0	0	0	0	0	0	0	0
53	42U Rack (Network)	0	0	0	0	0	0	0	0	0	0
54	General Server	0	0	0	0	0	0	0	0	0	0
55	PAS Operator Console	0	0	0	0	0	0	0	0	0	0
56	PAS Central Software	0	0	0	0	0	0	0	0	0	0
57	PAS Local Sub-System – Horn Speaker	1	1	0	1	1	0	3	0	0	7
58	PAS Local Sub-System – IP Amplifier	1	1	0	1	1	0	3	0	0	7
59	PAS Local Sub-System – Control Desk	0	0	0	0	0	0	0	0	0	0
60	Variable Message Signboard Central Software	0	0	0	0	0	0	0	0	0	0
61	SVDS Central Software	0	0	0	0	0	0	0	0	0	0
62	SVD Camera	0	0	0	0	0	0	0	0	2	2
63	External IR Illuminator	0	0	0	0	0	0	0	0	2	2
64	Local Processing Unit (LPU) for ANPR & SVD	0	0	0	0	0	0	0	0	2	2
65	Speed Detection Software Module (As per design)	0	0	0	0	0	0	0	0	2	2

		Sukrangi									
		IN Gate	OUT Gate	Production WB (Gross & Tare)	Sales WB (Tare)	Sales WB (Gross)	Parking Yard	Stockyard	CCC	Common Infra.	Total
	Number of locations	1	1	0	1	1	0	3	0	1	8
66	ANPR Software Module (as per design)	0	0	0	0	0	0	0	0	2	2
67	6U Pole Mount Junction Box for SVD	0	0	0	0	0	0	0	0	2	2
68	Rack Mount LIU (fully loaded) for SVD	0	0	0	0	0	0	0	0	2	2
69	6 Meter GI Cantilever Pole (for SVD) along with foundation, Lightening Arrestor, Earthing with GIS Strip, Earth Cable for LA	0	0	0	0	0	0	0	0	2	2
70	Fire Alarm & Suppression System	0	0	0	0	0	0	0	0	0	0
71	Rodent Repellant System	0	0	0	0	0	0	0	0	0	0
72	Video Management Software	0	0	0	0	0	0	0	0	0	0
73	Storage (300 TB)	0	0	0	0	0	0	0	0	0	0
74	CCC Interior Design for (6-Seater)	0	0	0	0	0	0	0	0	0	0
75	Antivirus Software (Server, PC at CCC) Subscription	0	0	0	0	0	0	0	0	0	0
76	A4 Laser Printer	0	0	0	0	0	0	0	0	0	0
77	Desktop Fixed Long Range UHF RFID Reader & Writer	0	0	0	0	0	0	0	0	0	0
78	Access Control System and accessories	0	0	0	0	0	0	0	0	0	0
79	Water Leak Detection System	0	0	0	0	0	0	0	0	0	0
80	QR Code Reader/Scanner	1	1	0	1	1	0	0	0	0	4
81	Pole for QR Code Reader/Scanner	1	1	0	1	1	0	0	0	0	4
82	Handheld device at Loading/Stock Yard	1	0	0	0	0	0	3	0	0	4
83	Wifi Access Point	1	0	0	0	0	0	3	0	0	4
84	Thermal Printer	0	0	0	0	0	0	0	0	2	2
85	FRP/GRP Pole Mount JB	1	1	0	1	1	0	3	0	0	7
86	PVC Perimeter Trunking- Modular type switch board (Socket and Switches)	1	1	0	1	1	0	0	0	0	4
87	PVC Perimeter Trunking- Fire Retardant Cable (2.5 Sq. MM) for internal wiring	1	1	0	1	1	0	0	0	0	4
88	PVC Perimeter Trunking- Earthing Wire (4 Sq. MM)	1	1	0	1	1	0	0	0	0	4
89	PVC Perimeter Trunking- PVC Casing Capping for internal wiring	1	1	0	1	1	0	0	0	0	4
90	PVC Perimeter Trunking- Internal electrical and networking work within local control room	1	1	0	1	1	0	0	0	0	4
91	Emergency Call Box (ECB) and associated licenses at field	0	0	0	0	0	0	3	0	0	3
92	Network SPD, CAT 6	0	0	0	0	0	0	0	0	56	56
93	IR Through Beam Sensors (WB & Boom Barrier)	2	2	0	8	8	0	0	0	0	20
94	12/24 VDC Power Supply for IR Through Beam Sensor	1	1	0	2	2	0	0	0	0	6
95	RFID Tags	0	0	0	0	0	0	0	0	1000	1000

