NOTICE FOR PRE NIT MEET

A Pre NIT (Notice Inviting Tender) meeting is scheduled to be held on 20-Sep-16 11:00 AM at D (T) Conference Hall, MCL HQ, for finalizing the technical specification parameters for items as detailed below, before floating of Tender Enquiry for procurement of these items.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Brief Description of Item proposed to be tendered</th>
<th>Qty. (Nos.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Static Road Weighbridge 100 T capacity with 05 yrs CAMC after 01 yr warranty.</td>
<td>19</td>
</tr>
<tr>
<td>02</td>
<td>In-motion Road Weighbridge 100 T capacity with 05 yrs CAMC after 01 yr warranty</td>
<td>39</td>
</tr>
</tbody>
</table>

Only PROVEN Manufacturers or their Authorized Dealers/Distributors/Selling Agents having establishment in India (where manufacturer is not quoting directly as a matter of policy) are entitled to participate.

The intending bidders will be considered as "Proven", if they satisfy the following conditions:

"The tendered item must have been supplied in the past to any Government/Public Sector Undertakings (Indigenous or Global) or any Private Industry (Indigenous or Global), against two different Firm supply orders consisting not less than 33% (cumulative) of tendered quantity, and, having satisfactory performance report from the user for a period of not less than 06 (six) months"

For any clarifications in the matter please contact the following address:

General Manager (MM)
Materials Management Department
At/P.O. Jagruti Vihar, Burla
Dist. Sambalpur – 768020 (Odisha)
Ph: +91 (0663) – 2542521 (O)
FAX: +91 (0663) – 2542734
E-mail, cgmm-mm.mcl@nic.in

The notice along with draft NIT for pre NIT meet is available at:
http://www.mahanadicoal.in/ and www.tenders.gov.in

General Manager (MM)
NIT No.: MCL/SBP/MMD/SEC-I/16-17/Weighbridge/ Dated :

**e-TENDER/ TENDER CUM AUCTION NOTICE**
(for Procurement of Consumables & others : DOMESTIC TENDER)

1. Tenders are invited on-line on the website https://mcltenders.nic.in from the eligible bidders having Digital Signature Certificate (DSC) issued from any agency authorized by Controller of Certifying Authority (CCA), Govt. of India and which can be traced up to the chain of trust to the Root Certificate of CCA.

<table>
<thead>
<tr>
<th>Description of Item</th>
<th>Estimated/ Indent Value (In Rs.)</th>
<th>Earnest Money (In Rs.)</th>
<th>Delivery Period (In Days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Static Road Weighbridge 100 T capacity with 05 yrs CAMC after 01 yr warranty. Qty – 19 Nos.</td>
<td>10,61,26,000/-</td>
<td>10,00,000/-</td>
<td>120</td>
</tr>
<tr>
<td>2. In-motion Road Weighbridge 100 T capacity with 05 yrs CAMC after 01 yr warranty. Qty – 39 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(The above tendered item(s) is (are) eligible/ not eligible for CENVAT Credit)

2. **Time Schedule of Tender** :

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particulars</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>Tender e-Publication date</td>
<td></td>
<td>18:00 Hrs</td>
</tr>
<tr>
<td>b.</td>
<td>Document download start date</td>
<td></td>
<td>10:00 Hrs</td>
</tr>
<tr>
<td>c.</td>
<td>Document download end date</td>
<td></td>
<td>17:00 Hrs</td>
</tr>
<tr>
<td>d.</td>
<td>Bid Submission start date</td>
<td></td>
<td>10:00 Hrs</td>
</tr>
<tr>
<td>e.</td>
<td>Bid submission end date</td>
<td></td>
<td>17:00 Hrs</td>
</tr>
<tr>
<td>f.</td>
<td>Start date for seeking Clarification on-line</td>
<td></td>
<td>10:00 Hrs</td>
</tr>
<tr>
<td>g.</td>
<td>Last date for seeking Clarification on-line</td>
<td></td>
<td>17:00 Hrs</td>
</tr>
<tr>
<td>h.</td>
<td>Bid Opening date</td>
<td></td>
<td>11:00 Hrs</td>
</tr>
<tr>
<td>i.</td>
<td>Start Date &amp; time of Reverse Auction (for tenders having estimated value of Rs. 1.00 Crore and above)</td>
<td>It shall start within two hours of opening of bids.</td>
<td></td>
</tr>
</tbody>
</table>

**Special NOTE :-**

If number of bids received online is found to be less than three on end date of bid submission then the following critical dates of the tender will be automatically extended initially for a period of two days , and if the number of bids still remains less than three, then for another five days

- Last Date of submission of Bid ending at 17:00 Hrs
- Date of opening of Tender at 11:00 Hrs

If any of the above extended dates falls on Holiday i.e. a non-working day as defined in the eProcurement Portal then the same shall be re-scheduled to the next working day. This extension will be also applicable in case of receipt of zero bids.
3. **Deposit of EMD:**
Earnest Money can be deposited online only on e-Procurement portal of MCL by following mode:
(a) Online fund transfer from Axis Bank
(b) NEFT from any Scheduled Bank

(EMD through NEFT has to be paid strictly as per the challan generated by the respective bidder on e-Procurement portal of MCL. The EMD payment through NEFT mode should be made well ahead of time to ensure that the EMD amount is transferred to MCL account before bid submission)

**The bid can be submitted only when the online EMD is received by MCL.** If the payment is made by the bidder within the last date & time of bid submission but not received by MCL within the specified period due to any reason then the bid will not be accepted. However, the EMD will be refunded back to the bidder.

State/Central Government Organisations/PSU, valid DGS&D/NSIC registered firm (for the tendered items), valid Ancillary Units of MCL (for the tendered items) and Micro / Small Enterprises [MSE] (for the tendered items) are exempted from submission of EMD. Such bidders will have to upload the scanned copy of the documents as specified below in support of their claim for exemption of EMD during submission of bid online

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Category of bidders</th>
<th>Documents against exemption of EMD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>State/Central Government Organisations/PSU</td>
<td>Self declaration</td>
</tr>
<tr>
<td>2</td>
<td>DGS&amp;D/NSIC registered Firms</td>
<td>Valid and Complete DGS&amp;D/NSIC Registration certificate for the tendered items attested by Notary Public</td>
</tr>
<tr>
<td>3</td>
<td>Ancillary Units of MCL</td>
<td>Valid and complete Ancillary Status certificate for the tendered items attested by Notary Public</td>
</tr>
<tr>
<td>4</td>
<td>Micro / Small Enterprises [MSE]</td>
<td>Valid and Complete Micro / Small Enterprises [MSE] Registration certificate for the tendered item issued by District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises. (attested by Public Notary).</td>
</tr>
</tbody>
</table>

4. **Refund of EMD:**
EMD of rejected bidders (except the bidders whose EMD is to be forfeited) at any stage will be refunded directly to the account from where it has been received. No claim from the bidders will be entertained for non-receipt of the refund in any account other than the one from where the money is received.

If the refund of EMD is not received by the bidder in the account from which the EMD has been paid due to any technical reason then it will be paid through e-payment. Bidder may have to submit Mandate Form for such e-Payment, if the mandate is not submitted by the bidder earlier.

In case the tender is cancelled then EMD of all the participating bidders will be refunded unless it is forfeited by the Purchaser.

If the bidder withdraws his/her bid online (i.e. before the end date of submission of tender) then the EMD will be refunded automatically after the opening of Bid.

The Earnest Money deposited by the L-1 bidder / Successful Bidder will be refunded on receipt of required Security Money from the bidder.
5. The “General Terms & Conditions” as enclosed in the NIT at Annexure-A shall form an integral part of the NIT and will also form a part of the Supply Orders placed against this tender.

6. **Clarification of Bid**: The bidder may seek clarification online within the specified period. The identity of the Bidder will not be disclosed by the system. The department will clarify as far as possible the relevant queries of bidders. The clarifications given by department will be visible to all the bidders intending to participate in that tender. The clarifications may be asked from the day of e-Publication of NIT. The period for seeking clarification by bidder will be up to 15 (fifteen) days before the end date of bid submission. The replies to clarifications sought by bidders shall be given at least 7 (seven) days before the end date of bid submission.

7. **Eligibility Criteria:**
   **A. Basic Eligibility**: The bidder should be any of the followings:
   
   a. Indian Manufacturer of the tendered items.
   
   OR
   
   b. Indian Selling Agent/Dealer/Distributor authorized by the Indian Manufacturer of the tendered items, if the manufacturer does not quote directly as a matter of policy.
   
   OR
   
   c. Indian Selling Agent/Dealer/Distributor authorized by the Foreign Manufacturer of the tendered items.
   
   **Note:**
   
   i. In a tender, either the authorised Selling Agent / Dealer / Distributor on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
   
   ii. One manufacturer can authorize only one selling agent / Dealer / Distributor against the same item in one tender.
   
   iii. If an authorised Selling Agent / Dealer / Distributor submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
   
   In respect of the above eligibility criteria the bidders are required to furnish the following information on-line:
   
   Confirmation in the form of Yes/No, regarding possessing documentary evidence for being either a manufacturer of the tendered item/items (being quoted by the bidder) or possessing specific authorization from their principal manufacturer to quote against the specific tender as their authorized Selling Agent/Dealer/Distributor.
   
   **B. Provenness Criteria**: Any one of the following conditions should be satisfied for provenness:
   
   (i) The tendered item or items of higher specification must have been supplied in the past to any Government/Public Sector Undertakings (Indigenous or Global) or any Private Industry (Indigenous or Global), against two different Firm supply orders consisting not less than 33%(cumulative) of tendered quantity, AND
   
   Either, having satisfactory performance report from the user for a period of not less than 06 (six) months OR
   
   The bidder will be required to furnish a self-certificate to the following extent:
   “The items covered in the supply order/s submitted against this Tender have been fully executed without any complaint on account of performance of the products supplied and have completed satisfactory performance of minimum 06 months. No warranty claim as regards to such suppliers is/are pending as on the last date of submission of Bid”
   
   **(NOTE: Definition of “Items of higher specification” - Road Weighbridge of higher tonnage capacity)**
   
   OR
   
   ii. The tendered items to be offered by the bidder should be ISI marked
   
   OR
   
   iii. The bidder should currently hold Rate Contract with CIL or its Subsidiaries for supply of the tendered items to be offered by the bidder.
   
   OR
   
   iv. The bidder should currently hold Rate Contract with DGS&D for supply of the tendered items to be offered by the bidder.
v. The bidder should have valid DGMS approval for the tendered items to be offered by the bidder. In case DGMS approval is indicated elsewhere in the NIT, then in such case DGMS approval shall be considered as a mandatory document.

vi. The bidder should be the Proven Ancillary unit of MCL for the tendered items to be offered by the bidder.

In respect of the above eligibility criteria the bidders are required to furnish the following information on-line:

Confirmation in the form of Yes/No, regarding compliance to any one of the proveness criteria mentioned at Sl. No. (i) to (vi) above and possessing the corresponding supporting documents as given in the NIT at Clause - 9.

C. VAT/Sales Tax Registration: The bidder should possess a VAT/ Sales Tax Registration issued by Sales Tax department of any Indian State/Union Territory.

In respect of the above eligibility criteria the bidders are required to furnish the following information on-line:

Confirmation in the form of Yes/No regarding possessing of VAT/ Sales Tax Registration certificate issued by Sales Tax department of any Indian State/Union Territory.

D. Permanent Account Number (PAN): The bidder should possess Permanent Account Number (PAN) issued by Income Tax department, Govt. of India.

In respect of the above eligibility criteria the bidders are required to furnish the following information on-line:

Confirmation in the form of Yes/No regarding possessing of Permanent Account Number (PAN) issued by Income Tax department, Govt. of India.

E. Excise Registration Certificate: All Bidders including first stage & second stage dealers shall be required to take Excise Registration and submit cenvatoble invoice for excisable goods unless the bidder is exempted from doing so as per relevant provision of excise notification.

In respect of the above eligibility criteria the bidders are required to furnish the following information on-line:

Confirmation in the form of Yes/No regarding possessing of Excise Registration Certificate issued by the Central Board of Excise and Customs OR Exemption documents as per relevant provision of excise notification

Other / Additional Eligibility Criteria shall be applicable as mentioned in the relevant clauses of this NIT

8. Technical Specification Parameters: The materials to be offered by the bidder must conform to the Technical Parameter Sheet [TPS] uploaded along with this NIT.

9. Submission of Bid:
   a. In order to submit the Bid, the bidders have to get themselves registered online on the e-Procurement portal (https://mcltenders.nic.in) with valid Digital Signature Certificate (DSC) issued from any agency authorized by Controller of Certifying Authority (CCA), Govt. of India, and which can be traced upto the chain of trust to the root certificate of CCA. The online Registration of the Bidders on the portal will be free of cost and one time activity only. The registration should be in the name of bidder, whereas DSC holder may be either bidder himself or his duly authorized person.

   b. The bidders have to accept unconditionally the on-line user portal agreement which contains the acceptance of all the Terms and Conditions of NIT including Commercial & General Terms & Conditions, 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 accepted.
c. **Letter of Bid**: The format of Letter of Bid (LOB) as given at Annexure–B will be downloaded by the bidder and will be printed on Bidder’s letter head and duly Signed by a person competent and having the “Power of Attorney” to bind the bidder. Scanned copy of such a “Signed & Stamped with the seal of the company” LOB along with “Power of Attorney” are to be uploaded during bid submission in Cover-I. This will be the covering letter of the bidder for his submitted bid. The content of the “Letter of Bid” uploaded by the bidder must be the same as per the format downloaded from website and it should not contain any other information. If there is any change in the contents of Letter of Bid uploaded by bidder as compared to the format of Letter of Bid uploaded by the department with NIT document, then the bid may be liable for rejection.

**Note**: The person who has signed Letter of Bid physically should bid online while submitting the offer. The physical signature of the person who has signed the LOB will be accepted without questioning the identity of person signing the LOB as the same person is DSC holder and himself is bidding online on MCL’s e-Procurement Portal. In case the person who has signed LOB is not bidding himself and has authorized another person to bid online on his behalf, then the further authorization on non-judicial stamp paper duly notarized (as per Annexure-C) by the person signing the LOB in favour of person bidding online is required to be uploaded.

d. **Submission of Forged/Tampered Documents**: Based on undertaking furnished by the bidder in its Letter of Bid, certifying the authenticity and statement made in the bid as well as documentary support of such statement submitted with online bid against the tender, MCL, while carrying out evaluation of the offer, shall consider the scanned copies of the documents without any verification with the original. However, MCL reserves the right to verify such documents with the original, if necessary at a later stage for which the bidder shall have to submit the original documents to MCL on demand. If at any point of time during procurement process or subsequently, any information or document submitted by the bidder, is found to be false/incorrect/forged/tampered in any way, the total responsibility shall lie with the bidder and MCL reserves the full right to take penal action as may be deemed fit including rejection of the offer and / or banning the bidder in MCL for future tenders. The penal action may include termination of contract / forfeiture of all dues including EMD/ Security Deposit / banning of the firm along with all partners of the firm as per provisions of law. Further, suitable action may be taken for claiming damages from the bidder.

e. **Confirmatory Documents**: All the confirmatory documents as enlisted below in support of online information submitted by the bidder are to be uploaded in Cover-I by the bidder while submitting their bid.

### A. **Basic Eligibility Criteria [Ref. Clause No.7(A) of NIT]**: The following specified documents depending on the category of bidders:

<table>
<thead>
<tr>
<th>SI No.</th>
<th>Category of Bidder</th>
<th>Scanned copy of documents(attested by Notary public) to be uploaded by all the bidders in support of Basic Eligibility Criteria</th>
</tr>
</thead>
</table>
| a      | Indian Manufacturers                                   | a. Factory license/Manufacturing license  
|        |                                                        | b. NSIC registration certificate.  
|        |                                                        | c. DGS&D registration certificate  
|        |                                                        | d. SSI/DIC registration certificate  
|        |                                                        | e. Valid ISO Certificate.  
|        |                                                        | f. Valid BIS license/certificate  
|        |                                                        | g. Valid DGMS approval  
|        |                                                        | h. Micro / Small Enterprises [MSE] Registration certificate issued by District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises  
<p>| b      | Indian selling agents/dealers/distributors            | i. Specific authorization from their principal manufacturer to quote against this tender (attested by Notary Public) |</p>
<table>
<thead>
<tr>
<th>authorized by Indian manufacturer</th>
<th>authorized by Indian manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>ii. Any one of the following documents of the principal manufacturer <em>(attested by Public Notary)</em> :</td>
<td></td>
</tr>
<tr>
<td>a. Factory license/Manufacturing license</td>
<td></td>
</tr>
<tr>
<td>b. NSIC registration certificate.</td>
<td></td>
</tr>
<tr>
<td>c. DGS&amp;D registration certificate</td>
<td></td>
</tr>
<tr>
<td>d. SSI/DIC registration certificate</td>
<td></td>
</tr>
<tr>
<td>e. Valid ISO Certificate.</td>
<td></td>
</tr>
<tr>
<td>f. Valid BIS license/certificate</td>
<td></td>
</tr>
<tr>
<td>g. Valid DGMS approval</td>
<td></td>
</tr>
<tr>
<td>h. Micro / Small Enterprises [MSE] Registration certificate issued by District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** The certificate in respect of Micro Small Enterprises Registration, NSIC Registration, SSI Registration, DGS&D Registration, ISO, BIS License and DGMS approval must be valid on the date of tender opening.

B. Provenness Criteria [Ref. Clause No.7(B) of NIT] : Any one of the following specified documents depending on the alternative provenness criteria selected by bidders :

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Alternative Provenness Criteria</th>
<th>Scanned copy of documents*(attested by Notary public)* to be uploaded by all the bidders in support of Provenness Criteria</th>
</tr>
</thead>
</table>
| i      | The tendered item or items of higher specification must have been supplied in the past to any Government/Public Sector Undertakings (Indigenous or Global) or any Private Industry (Indigenous or Global), against two different supply orders(Firm) consisting not less than 33%(cumulative) of tendered quantity AND Either, having satisfactory performance report from the user for a period of not less than 06 (six) months OR The bidder will be required to furnish a self-certificate to the following extent: “The items covered in the supply order/s submitted against this Tender have been fully executed without any complaint on account of performance of the products supplied and have completed satisfactory performance of minimum 06 months. No warranty claim as regards to such supplies is/are pending as on the last date of submission of Bid” | Both the following documents (a) and b(i) or b(ii)

- a. Complete Set of two different Supply orders(Firm) copies for the tendered item or items of higher specification consisting not less than 33%(cumulative) of tendered quantity. *(attested by Public Notary)* AND

- b. Any of the following:

  - b(i) Satisfactory performance report from the users for a period of not less than 06 months *(attested by Public Notary)*. OR

  - b(ii) The bidder will be required to furnish a self-certificate to the following extent:

    “The items covered in the supply order/s submitted against this Tender have been fully executed without any complaint on account of performance of the products supplied and have completed satisfactory performance of minimum 06 months. No warranty claim as regards to such supplies is/are pending as on the last date of submission of Bid” |
The tendered items to be offered by the bidder should be ISI marked

The bidder should currently hold Rate Contract with CIL or its Subsidiaries for supply of the tendered items to be offered by the bidder.

The bidder should currently hold Rate Contract with DGS&D for supply of the tendered items to be offered by the bidder.

The bidder should have valid DGMS approval for the tendered items to be offered by the bidder.

The bidder should be the Proven Ancillary unit of MCL for the tendered items to be offered by the bidder.

C. Other Eligibility Criteria: All the following specified documents:

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Other Eligibility Criteria</th>
<th>Scanned copy of documents (attested by Notary public) to be uploaded by all the bidders in support of Other Eligibility Criteria</th>
</tr>
</thead>
</table>
| 1.    | All Bidders including first stage & second stage dealers shall be required to take Excise Registration and submit cenvatable invoice for excisable goods unless the bidder is exempted from doing so as per relevant provision of excise notification (Ref. Clause No.7(E) of NIT) | Any one of the following documents (attested by Notary Public):
(1) Excise Registration Certificate.
(2) Firms claiming exemption from taking Excise Registration shall upload documentary evidence to this effect as per relevant provision of Rule 9(2) of Excise Rule 2002. |
| 2.    | VAT/Sales Tax Registration (Ref. Clause No.7(C) of NIT)                                   | VAT/Sales Tax Registration Certificate issued by Sales Tax Department of any Indian State/Union Territory (attested by Public Notary) |
| 3.    | Permanent Account Number (Ref. Clause No.7(D) of NIT)                                     | PAN Card issued by Income Tax department, Govt. of India (attested by Public Notary) |
| 4.    | Digital Signature Certificate (DSC) (Ref. Clause No.9(a) of NIT)                          | If the bidder himself is the DSC holder bidding on-line then no document is required. However, if the DSC holder is bidding online on behalf of the bidder the Power of Attorney or authorization as mentioned at Clause no. 9 i.e. Annexure-C is required. (attested by Public Notary) |
| 5.    | Any other document to support the qualification information as submitted by the bidder on-line (attested by Public Notary) |                                                                                                                                 |

D. Technical Specification Parameters [Ref. Technical Parameter Sheet [TPS] uploaded along with this NIT]: All the following specified documents:

<table>
<thead>
<tr>
<th>Item Sl.No</th>
<th>Technical Specification Parameter</th>
<th>Scanned copy of documents (attested by Notary public) to be uploaded by all the bidders in support of Technical Specification Parameters</th>
</tr>
</thead>
</table>
| 1          | Ref. TPS uploaded along with this NIT                                                          | 1. Technical literature & leaflets of the equipment namely Weighing plateform, Loadcells, PC, Printer, Line Conditioner/CVT,UPS.  
2. Model approval from Legal Metrology Dept of Govt of India.  
3. Detailed Drawing for foundation and approach road suitably matching the foundation is to be submitted for approval for MCL before starting foundation work |
Note: Only one file in .pdf format can be uploaded against each eligibility criteria. Any additional relevant documents to support the information/declaration furnished online by the bidder against eligibility criteria may also be attached by the bidder in the same file to be uploaded against respective eligibility criteria.

f. **Technical Parameter Sheet**: The Technical Parameter Sheet containing the technical specification parameters for each tendered item will be in Excel format and will be downloaded by the bidder and he will furnish all the required information on this Excel file. Thereafter, the bidder will upload the same Excel file during bid submission. Non-compliance of any one specification parameter of any item will disqualify the bidder in that item. The Technical Parameter Sheet which is incomplete and not submitted as per instruction given above will be rejected.

g. **Price bid**: The Price Bid/BOQ is to be filled up as per the requirement i.e. in terms of percentage or in absolute value.

In case the tendered item is eligible for CENVAT CREDIT then the Lowest [L-1] status shall be decided by deducting the following price components from the landed price viz Excise Duty, Service Tax excluding SBC & KKC (if applicable), for Domestic Bidders from the landed value. Incase of Domestic Bidders for imported materials Counter Vailing Duty, Custom Cess & Special Additional Duty paid by them during import shall be deduced from the Landed value to decide the L1 Status.

**Domestic Bidders having Excise Registration Certificate are required to indicate their Central Excise Registration number on the designated cells of the Price Bid / BOQ and shall have to upload Excise Registration Certificate as mentioned in the confirmatory documents (clause no. 9 e C1).**

**If the Bidder is exempted from paying Excise Duty, they have to mention as “NOT APPLICABLE” in the space of Central Excise Registration number in the Price Bid / BOQ and shall have to upload Excise Exemption Document as mentioned in the confirmatory documents (clause no. 9 e C 1).**

**CENVAT CREDIT is available on countervailing duty, on special additional duty of customs and educational & higher educational cess (if any) etc. for which successful bidders shall be required to submit a copy of the bill of Entry along with their bills for import goods.**

**All bidders including first stage & second stage dealers shall be required to take Excise Registration and submit cenvatable invoice for excisable goods unless the bidder is exempted from doing so as per relevant provision of excise notification. Firms claiming exemption from taking Excise Registration shall upload documentary evidence to this effect as per relevant provision of Rule 9(2) of Excise Rule 2002. Failing in compliance to this, the offers are liable for rejection. All Bidder / Bidders are required to upload the documents as detailed in confirmatory documents Clause 9 e C 1.**

As entry tax is applicable for all Domestic bidders, this component will be taken into consideration for calculating the landed price of all bidders. The bidders should not include Entry Tax Component in their Basic Price.

The landed price will be calculated automatically by the system in the Excel Sheet. Thereafter, the bidder will upload the same Excel file during bid submission in **cover-II [i.e. Price Bid / BOQ]**. The Price-bid will be in Item-wise Rate BOQ format and the bidder may quote for any or all the tendered items and the **L-1 will be decided for each item separately**.

**The Price Bid which is not submitted as per instruction given above will be rejected.**

**N.B. “The evaluation of prices to arrive L-1 status will be made on FOR destination basis, all inclusive along with CAMC charges for 5 years”**

10. All bids are to be submitted on-line on the website https://mcltenders.nic.in. No bid shall be accepted off-line.
11. Modification and Withdrawal of Bid:
   a) Modification of the submitted bid shall be allowed online only before the deadline of submission of tender and the bidder may modify and resubmit the bid online as many times as he may wish before the deadline of submission of tender.
   b) No bid can be modified after the deadline for submission of bids.
   c) Bidders may withdraw their bids online within the last date and time of bid submission and their EMD will be refunded automatically after the opening of bid.
   d) No bid can be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity offered by the Bidder. Withdrawal of a bid during this interval may result in the forfeiture of Bidder’s Earnest Money.
   e) If the bidder withdrawing his bid is other than L1, the tender process shall go on.
   f) If the bidder withdrawing his bid is L-1 bidder, then re-tender will be done for the items in which this bidder was L1.

12. Bid Validity: The validity period of the tenders shall be minimum 180 (one hundred eighty) days from the end date of submission of bid.

The bidder shall not, during the said period or within the period extended by mutual consent, revoke or cancel his tender or alter the tender or any terms/conditions thereof without consent in writing of the company. In case the tenderer violates to abide by this, the Company will be entitled to take action as per clause No.11 (Modification and Withdrawal of Bid) of NIT.

13. PRICES: Prices quoted must be FIRM till delivery; otherwise the offer will be rejected.

The destination point for delivery of materials will be as follows:

<table>
<thead>
<tr>
<th>Item Sl.No.</th>
<th>Quantity (Nos.)</th>
<th>Consignee</th>
<th>Destination Point (Place of delivery of materials)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 02</td>
<td>03 04</td>
<td>Depot Officer, Regional Store, MCL, Jagannath Area</td>
<td>Depot Officer, Regional Store, MCL, Jagannath Area PO: Balanda, Talcher, Dt. Angul-759116 Nr. Rly. Stn. Talcher TIN: 21461301922 CST: DLC-959 dt.07.06.1990</td>
</tr>
<tr>
<td>01 02</td>
<td>02 02</td>
<td>Depot Officer, Regional Stores, MCL, Bharatpur Area</td>
<td>Depot Officer, Regional Stores, MCL, Bharatpur Area Near. Bharatpur CHP, P.O.: Balanda, Talcher, Dist.: Angul – 759116, Orissa (India) TIN: 21461301922 CST: DLC 959 DT.07.06.1990</td>
</tr>
<tr>
<td>01 02</td>
<td>05 06</td>
<td>Depot Officer, Regional Stores, Lingaraj Area</td>
<td>Depot Officer, Regional Stores, Lingaraj Area, P.O.: Deulbera Colliery, Talcher Dist. Angul-759 102 (Orissa) Rly Stn. : Talcher (Eco Rly) TIN: 21461301922 CST: DLC 1494 Dt.03.04.1998</td>
</tr>
<tr>
<td>01 02</td>
<td>02 08</td>
<td>Depot Officer, Regional Store, MCL, Hingula Area</td>
<td>Depot Officer, Regional Store, MCL, Hingula Area PO: Gopal Prasad, Talcher, Dt. Angul-759103, Orissa Nr. Rly. Stn. Talcher TIN: 21461301922 CST: DLC-1466 dt.03.12.1997</td>
</tr>
<tr>
<td>01 02</td>
<td>00 05</td>
<td>Depot Officer, Regional Stores, IB-Valley Area</td>
<td>Depot Officer, Regional Stores, IB-Valley Area, MCL Samleswari Open Cast Project, P.O.: Brajarajnagar – 768 216 Dist. Jharsuguda (Orissa) Rly Stn – Brajarajnagar (ECor.) TIN: 21211700002 CST: SA (C ) III,561 Dt.23.7.1973</td>
</tr>
</tbody>
</table>
MCL’s Centralized Central Excise Registration no. AABC5188PEM012

The bidder will be responsible for safe arrival of materials to the destination points as mentioned above. However, the unloading and stacking of materials will be the responsibility of the consignee.

The bidders should quote their unit rate on FOR (Free on Road/Rail) destination basis in a specified format containing the breakup of applicable taxes and duties, freight, insurance as per the requirement of BOQ (Sheet1) i.e. in percentage or absolute value. Entry tax component shall automatically be calculated by the system for calculation of Landed price. Bidders should quote their basic price exclusive of entry tax and other components of the price in percentage or absolute value along with the basic price of each item. The landed value will be calculated automatically by the system based on the price quoted by the bidders, by summing up the basic rate with other price elements as given by bidders online and L1 bidder shall be decided by the system. However the items for which MCL is eligible for availing CENVAT Credit the system shall deduct the following Price elements (i.e. Excise duty, Service tax excluding SBC & KKC, Countervailing Duty [CVD], Special Additional Duty [SAD].) from the landed Value for arriving at the L1 Status

**Excise Duty: (For Domestic Bidders):** Bidders are required to indicate Excise Duty and Service Tax separately in the BOQ wherever applicable.

In case MCL is eligible for CENVAT Credit, at the time of evaluation of tenders to arrive at the lowest landed rate quoted, the amount of Excise Duty and Service Tax excluding SBC & KKC (if any) will be deducted from the landed cost for evaluation of tender and for deciding the L1 status.

Domestic Bidders are to indicate their Central Excise Registration no. and Excise Tariff code on the designated cells of the “Sheet 1”. This is to be followed strictly.

**Countervailing duty (CVD), Special Additional Duty (SAD) & Service Tax (if any): (Indian selling agent, dealer, distributer authorized by foreign manufacturer)** In case MCL is eligible for CENVAT Credit, at the time of evaluation of tenders to arrive at the lowest landed rate quoted, the amount of countervailing duty (CVD), Custom Cess, Special Additional duty (SAD) & Service Tax excluding SBC & KKC (if any) will be deducted from the landed cost for evaluation of tender and for deciding the L1 status.

**Non submission of any price component by bidder will be taken as ‘zero’ by the system, the evaluation will be done accordingly and that price element will be assumed to be included in the basic price quoted by the bidder.**

**14. Taxes and Duties:** In case of any increase in Taxes and Duties after the last date of submission of bid and upto the stipulated delivery period, the same shall be reimbursed by the Company on production of documentary evidence in support of payment actually made to the concerned authorities. In case of any increase in Taxes and Duties after expiry of the stipulated delivery period, such increase will be borne by the Supplier. In case of any decrease in Taxes and Duties after the last date of submission of bid and up to the delivery period (stipulated/extended), the same shall be recovered from the Supplier.

**15. Applicable Rate of Entry Tax:** The applicable rate of Entry tax for the tendered items will be calculated @ 2 % (rate presently applicable) on the total price including all taxes and Duties.
Note: In respect of supplies from the states other than Odisha, Entry Tax will be paid by MCL but for the supplies from within the state of Odisha the Entry Tax will be paid initially by the bidder, which will be reimbursed by MCL.

Entry tax component shall automatically be calculated by the system for calculation of Landed price. Bidders should quote their basic price exclusive of entry tax.

16. **Applicability of CST:**
Concessional CST is applicable for the tendered items and form “C” will be issued by MCL to the Supplier

17. **Delivery Schedule:** The Delivery period shall be as follows:

The delivery period of the weighbridges will be 120 days from the date of placement of supply order. Civil works, installation and commissioning of the weighbridges to be completed within 60 days from the date of supply of the weighbridge or allotment of the clear site by concerned project officer whichever is later. Total schedule will be 120 days for supply and 60 days for civil works, installation and commissioning of the weighbridges

Note: Materials should not be supplied after expiry of scheduled Delivery Period. However, after expiry of delivery period supplier may request the order placing authority for extension of delivery period and materials to be supplied only after getting extension of delivery period.

18. **Guarantee/Warranty:** The Guarantee/Warranty period shall be as follows:

The bidder shall be fully responsible for the manufacturer's warranty in respect of proper design, quality, workmanship of the materials for which these are intended for. Accordingly the firm shall furnish Guarantee/Warranty certificate along with the bill for satisfactory performance of the ordered materials for a period of 18 months from the date of receipt and acceptance of materials at ultimate destination or 12 months from the date of use/commissioning whichever is earlier. Any defective material shall be replaced by the firm within 30 days of intimation from the consignee without any extra cost to MCL. All cases of warranty replacement will be decided on the basis of joint inspection of the failed item, held between the user and the manufacturer's representative.

19. **Cost of Bidding:** The bidder shall bear all costs associated with the preparation and submission of his bid and MCL will in no case be responsible and liable for those costs.

20. **Currencies of Bid and Payment:** The unit rates shall be quoted by the Bidder entirely in Indian Rupees only.

21. It is the bidder's responsibility to comply with the system requirement i.e. hardware, software and internet connectivity at bidder's premises to access the e-tender website. Under any circumstances, MCL shall not be liable to the bidders for any direct/indirect loss or damages incurred by them arising out of incorrect use of the e-tender system or internet connectivity failures.

22. **Opening of Bid:** The bid (i.e. Cover I & Cover II) will be decrypted and opened on-line, on the pre-scheduled date and time by the Bid Openers with their Digital Signature Certificate (DSC). Upon opening of bids, LOB, GTE, TPS, BOQ and all other documents uploaded by the eligible bidders shall get opened. There will be two systems of tender evaluation, one is normal tender evaluation (for tenders having estimated value less than INR 1 Crore) & other mode of evaluation shall be based on tender cum auction (for tenders having estimated value INR 1 crore and above).

   a) **Tender (having estimated value less than INR 1 Crore):** After opening of bid, comparative statement showing the status of bidders shall be generated.
   b) **Tender-cum-auction (having estimated value INR 1 crore and above):** After opening of bid, the system will show lowest F.O.R. Destination rate. The auction (reverse) shall be created for the tender, after opening of price bid.
23. Tender / Tender-cum-auction evaluation

a) After opening of Price-bid (in case of tender having estimated value less than 01 Crore) / after completion of reverse auction (in case of tender cum auction, for tenders having estimated value 1 crore and above), the documents submitted by L-1 bidder in cover I as enlisted in the NIT will be downloaded by the Evaluator and shall be put up to the Tender Committee. The Tender Committee will examine the uploaded documents against information / declarations furnished by the L1 bidder online. If it confirms to all of the information/declarations furnished by the bidder online and does not change the eligibility status of the bidder then the bidder will be considered eligible for award of Contract.

b) In case the Tender Committee finds that there is some deficiency in uploaded documents by L1 bidder then the same will be specified online by Evaluator clearly indicating the omissions/shortcomings in the uploaded documents and indicating start date and end date allowing 10 days (10 x 24 hours) time for online re-submission by L1 bidder. The L-1 bidder will get this information on their personalized dash board under “Upload confirmatory / shortfall document” link. Additionally, information shall also be sent by system generated email and SMS, but it will be the bidder’s responsibility to check the updated status/information on their personalized dash board regularly after opening of bid. No separate communication will be required in this regard. Non-receipt of e-mail and SMS will not be accepted as a reason of non-submission of documents within prescribed time. The bidder will upload the scanned copy of all those specified documents in support of the information/declarations furnished by them online within the specified period of 10 days. If the L1 bidder fails to submit the specified document/s in 10 (ten) days, 10 more days (10 x 24 hours) may be given by Evaluator clearly indicating the omissions/shortcomings in the uploaded documents and indicating start date and end date for submission/uploading of such document/s.

c) The tender will be evaluated on the basis of documents uploaded by L-1 bidder online. The L-1 bidder is not required to submit hard copy of any document through offline mode. Any document submitted offline will not be given any cognizance in the evaluation of tender.

d) If the techno-commercially acceptability of L1 bidder is established upon verification of uploaded documents & shortfall documents (if any), the case shall be considered for award of Contract to eligible L1 bidder. If the L1 bidder happens to be defaulter upon verification, the documents of the next lowest bidder shall be downloaded for evaluation and shortfall documents shall be obtained if required (as detailed earlier). This process shall continue sequentially till techno-commercially acceptable L1 bidder is established.

e) The following penalties shall be imposed on defaulting bidders:

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Situation</th>
<th>Penal Provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L-1 bidder is a defaulter for part of items for which he is L-1</td>
<td>50% of EMD amount or Rs. 1.00 Lakh whichever, is lower shall be forfeited. In case the defaulter is an EMD exempted bidder, he will be asked to deposit the equivalent amount within seven days of notice otherwise he will be disqualified in the subsequent tender for the item he participated.</td>
</tr>
<tr>
<td>2</td>
<td>L-1 bidder is a defaulter for all items for which he is L-1</td>
<td>100% of EMD amount or Rs. 1.00 Lakh whichever, is lower shall be forfeited. In case the defaulter is an EMD exempted bidder, he will be asked to deposit the equivalent amount within seven days of notice otherwise he will be disqualified in the subsequent tender for the item he participated.</td>
</tr>
<tr>
<td>3</td>
<td>L-1 bidder happens to be a defaulter in 2 tenders issued by the same procurement entity within a span of one year</td>
<td>100% of EMD amount of 2nd tender shall be forfeited. In case the defaulter is an EMD exempted bidder, he will be asked to deposit the equivalent amount within seven days of notice otherwise he will be disqualified in any of the tenders he participates for a period of one year.</td>
</tr>
</tbody>
</table>
Note:
- The zone of applicability of penal provision shall be MCL only.
- The penal provisions shall be squarely applicable to all those firms whose documents are examined on account of treating them as L-1 successively. For OEMs, the debarring action shall not be applicable for their spares.
- The submission of forged documents if any by the bidder shall be dealt as per extant guidelines of the Purchase Manual.

f) In case none of the bidder complies the technical requirement, then re-tender will be done (with the same or different quantity, as per the instant requirement).

g) It is responsibility of Bidders to upload legible/clearly readable scanned copy of all the required documents as mentioned in clause no.9 (e) - Confirmatory Documents.

24. General guidelines and Process Flow for Tender cum Auction:

General guidelines and Process Flow for Tender cum Auction, if applicable are as under:-

a) The Reverse Auction Process in Tender(s) is applicable for estimated value of tender equal to or more than Rs.1.00 Crore, invited by MCL.

b) Reverse Auction will be initiated after opening of price bids, as specified by Tender Inviting Authority (TIA) as detailed above.

c) There will be no participation fees for e-Reverse auction.

d) Upon opening of the price bids, a reverse auction platform will be created, displaying only the item wise L1 price received. No indication will be available in the portal to anybody regarding number of bids and names of the bidders.

e) L-1 Landed price/cost to the company will be the start bid price for tenders Goods. The BOQ shall be designed taken into consideration CENVAT credit, VAT set off (if any, presently not available to MCL), as applicable, so that it is reflected in the landed price.

f) The L1 price/start bid price is Landed / cost to the company price on which the auction will be initiated. At the end of reverse auction, the L1 bidder shall have to submit break up of prices conforming to the lowest landed rate quoted by him in the reverse auction.

g) The L-1 Bidder after the reverse auction has to upload the breakup of Landed Price in the shortfall document. The detailed breakup of offered landed price uploaded by the bidder shall be considered and order if place shall be with the same breakup of prices. The L-1 bidder after reverse auction will be responsible to ensure that Landed rate as per the breakup of prices provided by him after the reverse auction & L-1 landed rate offered by him in the reverse auction is exactly same, otherwise it may be treated as withdrawal of offer and it will attract penal action. While giving breakup, the bidder will have to consider the same rate of taxes and duties as quoted while submitting the e-Price bid. In case the L-1 bidder fails to submit the breakup of landed price within 07 days, MCL shall be at liberty to place order on the basis of breakup of the e-price bid submitted by the bidder along with the initial offer and same shall be binding on the bidder.

h) The decrement value will be 0.5% of the start bid price rounded off to the nearest Rupee with minimum of Rs.1/-, as the system does not have a provision of taking amounts less than Rs.1/- as decrement value. The reduction shall have to be made as per decrement value or in multiple thereof.

i) Initial period of reverse auction will be two hours (Start date & time of auction shall be intimated online after opening of Bid). There will be auto extensions of time every time by ten minutes in case of any reduction recorded in the last ten minutes. The reverse auction will come to a close only when there is no further reduction recorded in the last ten minutes slot.

j) System protects bid and bidder information till auction gets over and displays current L1 price to the bidder in auction hall.

k) System provides bidder details along with bid documents at the end of reverse auction process.

l) The log details of the entire reverse auction process will be generated by the system once the process of reverse auction is completed.

m) If a bidder does not submit his bid in the Reverse Auction, the price quoted by him in the price bid shall be considered as the valid price of that bidder. The status of the bidder (L1, L2 etc) shall be evaluated considering either the bid price submitted in Reverse auction or the Price quoted in the price bid, whichever is lower.

n) Since, reverse auction is a sequel to e-tender, the process of finalizing the tender upon completion of reverse auction will be same as the tender process without reverse auction.

o) MCL will provide the calculation sheet (e.g.: EXCEL sheet) which will help to arrive at “Total Cost to MCL” by the vendor, like packing & forwarding charges, Taxes and duties, freight charges, Insurance, Service tax for services etc, to enable them to fill-in the price and keep it ready for keying in during the Reverse auction.

p) The bid history shall reflect only the landed price. The landed price shall also not be same for two bidders even if any bidder makes such an attempt.

q) Only the chronologically last bid submitted by the bidder till the end of the auction shall be considered as the valid price bid of that bidder. Any bid submitted earlier by the bidder prior to submission of his last bid will not be considered as the valid price bid.

r) Purchase Preference in case BEC (Bidder Evaluation Criteria) provides for Purchase Preference as per Govt. Policy, as may be notified time to time to any category of bidders, and if any of the short listed bidders are eligible for such purchase preference in terms of policy, such bidders would get opportunity to match the L-1 prices concluded after reverse auction, if their final prices in reverse auction fall within the permitted %.

s) Conversion Rate: while evaluating the bids, the exchange rate captured by the e-procurement system will be taken into account for conversion of foreign currency into Indian rupee.

t) Server time shall be the basis of Start time & Closing time for bidding and shall be binding for all. This would be visible to all concerned.

u) On expiry of the closing of the auction, the bid history showing all the last valid bids offered along with name of the bidders shall be published. All bidders shall have the facility to see and get a print of the same for their record.

v) All electronic bids submitted during the reverse auction process shall be legally binding on the bidder. The chronologically last bid submitted by the bidder till the end of the auction will be considered as the valid price bid offered by that bidder and acceptance of the same by MCL will form a binding contract between MCL and the bidder for entering into a contract.

w) Input Tax Credit will be considered for determining the status of the bidders
x) Conditional discounts shall not be considered. If a bidder offers a discount unilaterally after submission of bid, the discount shall not be considered for evaluation of offers but shall be availed if order is placed on such tenderer.

y) If the lowest price received during reverse auction is unreasonable or it is unacceptable on ground of being too high or too low compared with estimated price, the management reserves right to seek justification of the price from lowest bidder. If the price is not considered reasonable, management may not accept such bid and go for another tender process.

z) In case of disruption of service at the service provider’s end while the RAP is online, due to any technical snag or otherwise attributable to the system failure at the server end, the RAP process will start all over again. In such a situation, the last recorded lowest price of prematurely ended RAP, will be the ‘Start Bid’ price for the restarted RAP. The prices quoted in the prematurely ended RAP will be binding on all the bidders for consideration, if the restarted RAP does not trigger within the stipulated time.

Disruption and restarting of RAP shall be intimated to all the bidders through system/SMS/e-mail through e-procurement portal. All the time stipulations of normal RAP will be applicable to the restarted RAP.

25. Ancillary policy and MSE Policy: The facilities / preferences for procurement of materials from the Ancillary units and Micro / Small Enterprises [MSE] shall be done as per the MCL Procurement Policy for Ancillary as well as Micro / Small Enterprise [MSE]. The Detailed MCL’s Policy regarding Procurement from Micro / Small Enterprises and Ancillarised units of MCL as per [MSE] Order 2012 and Existing Ancillary Policy of MCL is available at MCL website: www.mahanadicoal.in

To avail the facilities/PREFERENCES for Ancillary Unit and Micro / Small Enterprises [MSE] have to upload the required documents (attested by Public Notary) as specified in clause No. 3 of the NIT to confirm their eligibility.

26. Placement of Supply Order: The bidder whose bid has been accepted, will be intimated about placement of supply order on-line and also by registered/speed post by the employer. The scanned copy of the supply order will be uploaded, on the e-procurement portal and the original copy will be sent to the L-1 bidder/s through Registered / Speed Post. The L-1 bidder/s will get the information regarding placement of supply order on their personalised dash-board on-line. The date of receipt of order will be taken as the date on which the scanned copy of Supply Order is uploaded on the e-Procurement portal or 7th day from the date of issue of Supply Order by Registered/Speed Post whichever will be earlier. It will be the responsibility of the firm to download the same from MCL portal. On receipt of supply order, the successful tenderer shall submit his acceptance of supply order within 15 days from the date of order. Failure to accept the supply order within the specified period may entail cancellation of supply order and the firm’s performance will be recorded for further dealings with them.

27. The supply should be completed within the stipulated period of delivery which shall be reckoned from the date of receipt of Supply Order.

28. Security Deposit: The successful tenderer will be required to deposit Security Money equivalent to 10% of the value of the awarded contract, in the form of Demand Draft or irrevocable Bank Guarantee issued by any scheduled Bank in the prescribed format (as given in the NIT at Annexure-D), within 15 days from the date of receipt of Supply Order. The Bank Guarantee submitted towards Security Money shall be valid for a minimum period of ninety days beyond the stipulated delivery period. Failure to deposit the required Security Money within the specified period shall entail cancellation of Supply Order and the case shall be processed to order elsewhere and the firm’s performance is to be kept recorded for future dealing with them.

The Security Deposit shall be refunded within 30 days of satisfactory execution of the contract. For unsatisfactory performance and/or contractual failure, the Security Deposit shall be forfeited. In case of
extension of the delivery period the validity of Bank Guarantee submitted towards Security Deposit shall be suitably extended to cover the required validity period of ninety days beyond the extended delivery period.

State/Central Government Organisations/PSU, valid DGS&D/NSIC registered firm (for the tendered items) and valid Ancillary Units of MCL (for the tendered items) are exempted from submission of Security Deposit.

In case the value of Security Deposit works out to be less than Rupees Five Lakhs, then the same shall be deposited in the form of Demand Draft. No Bank Guarantee shall be accepted by MCL for a value less than Rupees Five Lakhs.

 Provision for operating Bank Guarantee locally at Sambalpur, Odisha shall also be stipulated in the above Bank Guarantee by the issuing outstation Bank. The complete Postal address, Telephone Number, FAX Number and e-mail address of both the outstation issuing Bank as well as the local operating branch should also be mentioned on the Bank Guarantee.

In case the validity period of the above Bank Guarantee needs extension the same shall be extended for a minimum period of three (03) months.

29. **Performance Guarantee**: The successful tenderer will be required to deposit Performance Guarantee equivalent to 10% of the value of the awarded contract for each equipment separately, in the form of irrevocable Bank Guarantee issued by any scheduled Bank in the prescribed format (as given in the NIT at Annexure-E), before supply of each equipment. The Bank Guarantee submitted towards Performance Guarantee shall be valid for a minimum period of ninety days beyond the stipulated warranty period of 01 year & AMC period of 05 years i.e. total 06 (six) years.

Security Money may be converted into Performance Guarantee by extending the validity of Bank Guarantee. In case the successful tenderer wants to convert their “Bank Guarantee for Security Deposit” into Performance Guarantee, the validity of Bank Guarantee for Security Deposit should be suitably extended to cover the required validity period of ninety days beyond the stipulated warranty period of 01 year & AMC period of 05 years i.e. total 06 (six) years.

The Performance Bank Guarantee shall be released within 30 days of expiry of warranty period, if no claim is pending. For unsatisfactory performance and/or contractual failure, the Performance Guarantee shall be forfeited.

In case the value of Performance Bank Guarantee works out to be less than Rupees Five Lakhs, then the same shall be deposited in the form of Demand Draft. No Bank Guarantee shall be accepted by MCL for a value less than Rupees Five Lakhs.

 Provision for operating Bank Guarantee locally at Sambalpur, Odisha shall also be stipulated in the above Bank Guarantee by the issuing outstation Bank. The complete Postal address, Telephone Number, FAX Number and e-mail address of both the outstation issuing Bank as well as the local operating branch should also be mentioned on the Bank Guarantee.

In case the validity period of the above Bank Guarantee needs extension the same shall be extended for a minimum period of three (03) months.

30. **Inspection Clause**: Final inspection of materials shall be carried out at the consignee’s end by Staff Officer (E&M), of the area before acceptance of materials. The purchaser shall at its discretion have the right to test the supplied materials in any Government testing laboratory. The sample of materials used for testing shall be on Supplier’s account. If the test shows that the materials are conforming to the specification, the supplied materials shall be accepted and the testing charges shall be borne by the department. However, if the test shows that the materials are not conforming to the specifications, the supplied materials shall not be accepted and the testing charges shall be borne by the Supplier and the materials shall be removed and replaced by the supplier.

31. **Payment terms**:

A. **Indian Bidders (For Indigenous materials)**
Payment of 80% basic cost of material and 100% taxes, duties, freight & insurance shall be made through e-Payment within 21 days of receipt and acceptance of material at consignee’s end or submission of bill, whichever is later and receipt & acceptance of Performance Bank Guarantee by the order placing authority. Payment of balance 20% basic cost of material along with 100% Installation & Commissioning charges and service tax shall be made within 21 days of successful commissioning of weighbridge. However, the payment of Excise Duty shall be made against production of documentary evidence in support of payment actually made to the concerned authorities.

B. Indian Bidders (For Imported materials)

Payment of 80% basic cost of material and 100% taxes, duties, freight & insurance shall be made through e-Payment within 21 days of receipt and acceptance of material at consignee’s end or submission of bill, whichever is later and receipt & acceptance of Performance Bank Guarantee by the order placing authority. Payment of balance 20% basic cost of material along with 100% Installation & Commissioning charges and service tax shall be made within 21 days of successful commissioning of weighbridges.

The supplier has to produce a certificate from their Auditor certifying that they have paid Customs Duty as per prevailing Custom Rates and refund, if any, shall be passed on to the buyer. This certificate is to be submitted along with supplies/bills.

The supplier has also to produce the following documents along with supplies/bills,

i) Copy of Invoice/Packing List of Manufacturer drawn in favour of Indian Authorized Dealers/Distributors/Selling Agents along with original.

ii) Copy of Bill of Entry together with the original.

iii) Copy of Bill of Lading drawn in favour of Indian Authorized Dealers/ Distributors/Selling Agents showing the manufacturer as Seller/Exporter/ Shipper/Consignor.


NOTE: The original documents will be returned after verification by the Consignee.

32. Liquidated Damages: In the event of failure to deliver or despatch the stores within the stipulated date/period in accordance with the samples and/or specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, MCL should have the right :-

a) To recover from the successful tenderer, a sum of 0.5% (half percent) of the price of any stores which the successful tenderer has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10% (Ten percent).

b) To purchase elsewhere, after due notice to the successful tenderer on the account and at the risk of the defaulting supplier the stores not supplied or others of similar description without cancelling the supply order in respect of the consignment not yet due for supply or,

c) To cancel the supply order or a portion thereof and if so desired to purchase the stores at the risk and cost of the defaulting supplier and also,

d) To extend the period of delivery with or without penalty as may be considered fit and proper. The penalty, if imposed shall not be more than the liquidated damages referred to in clause (a) above.

e) To forfeit the security deposit fully or partly.

f) Whenever, under this contract, a sum of money is recoverable from and payable by the supplier, MCL shall be entitled to recover such sum by appropriating in part or in whole by deducting any sum or which at any time thereafter may become due to the successful tenderer in this or any contract should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay MCL on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.

33. Price Fall Clause: The price charged for the stores/equipments supplied against this tender by the bidder shall in no event exceed the lowest price at which the bidder sell or offer to sell the stores of identical description to any other organisation during the period of contract.
If the supplier at any time during the period of contract reduces the sale price, sells or offers to sell such stores/equipment to any other organization at a price lower than the price chargeable under this contract, the supplier shall forthwith notify such reduction of sale price to the MCL and the price payable under the contract for stores/equipment supplied after the date of coming in force of such reduction in sale price, shall stand correspondingly reduced.

34. **Price Certificate**: In the event of placement of Supply Order on the lowest tenderer they shall have to submit a price certificate in all their invoices in the following format:-

“It is certified that the price charged in this invoice does not exceed the lowest price at which we sell or offer to sell the stores of identical description to any other organisation during the period of contract”.

35. **Risk Purchase**: In the event of failure of the supplier to deliver or despatch the stores within the stipulated date/period of the supply order, or in the event of breach of any of the terms and conditions mentioned in the supply order, the Company have the right to purchase the stores from elsewhere after due notice to the defaulting supplier at the risk and cost of the defaulting supplier. It is mentioned clearly in this tender enquiry that in the event of failure of the supplier as detailed above, the cost as per risk purchase exercise may be recovered from the bills against any other supplies pending in MCL and also in any other Subsidiary Companies/ Coal India Limited.

36. **Force Majeure**: If the execution of the contract/supply order is delayed beyond the period stipulated in the contract/supply order as a result of outbreak of hostilities, declaration of an embargo or blockage or fire, flood, acts of nature or any other contingency beyond the supplier’s control due to act of God, then the purchaser may allow such additional time by extending the delivery period as he considers to be justified by the circumstances of the case and his decision in this regard shall be final. If and when additional time is granted by the purchaser, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended. Power failure will not be considered as a force majeure conditions.

37. **Way Bill(s)**: As per present rules of Odisha State Govt. the material transaction for MCL, from outside of Odisha shall take through e-Way Bill. A format of e-Way Bill (enclosed) on readiness of the consignment at firm’s end, Firm’s are advised to fill all the required information in the format and send the same to respective consignees through Fax/e-mail/hard copy. Consignee shall generate e-Way Bill on the basis of information furnished by the firm and will be sent to them through fax/e-mail/hard copy for arranging dispatch / transportation of material.

38. Canvassing in connection with the tenders in any shape or form is strictly prohibited and tenders submitted by such tenderers who resort to canvassing shall be liable for rejection.

39. The Company reserves the right to postpone the date of receipt and opening of tenders or to cancel the tenders without assigning any reason whatsoever.

40. The Company reserves its right to allow Public Enterprises purchase preference facility as admissible under prevailing policy.

41. The Company does not bind itself to accept the lowest tender and reserves the right to reject any or all the tenders without assigning any reasons whatsoever and to accept the tender in part and not in its entirety.

42. Matters relating to any dispute or difference arising out of this tender and subsequent contract awarded based on this tender shall be subject to the jurisdiction of Local District Court.

43. **Arbitration**: In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for arbitration to the sole arbitrator in the department of public Enterprises to be nominated by secretary to the Govt. of India in-charge of the Deptt. of public Enterprises. The Arbitration and conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute,
provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Govt. of India. Upon such reference the dispute shall be decided by the Law Secretary or the special Secretary/Additional Secretary, when so authorized by the law secretary, whose decision shall bind the parties finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the arbitrator.

The arbitration clause mentioned above shall be applicable only in case of orders/contracts to be placed on Public Sector Enterprises/Government Departments.

44. Comprehensive Annual Maintenance Contract (CAMC):

1.0 SCOPE OF WORK:

The Comprehensive Annual Maintenance Contract of Road Weighbridges includes checking, repair, Servicing, maintenance of road weighbridges installed at different Projects / Sidings of MCL and which shall be handed over to the firm in working condition. The Comprehensive AMC also includes replacement of defective parts / subassemblies of a). Load Cells (b) Digitizer (c). PC, VDU (d). Printer / Printer head, (e) Key Board (f). UPS (g). CVT/Voltage Stabilizer (h). All mechanical items excluding structural items (j). Any other part/component forming part of the Weighbridge (j) Calibration and testing as per statutory requirements (k) to keep Weighbridge in perfect condition for weighment purpose and (l) to Monitor the earthing systems duly recorded on monthly basis so that weighbridge is constantly kept in perfect working order for weighment purpose.

ROAD WEIGHBRIDGES:

2.0 The company (MCL’s) responsibility is:

(i) Providing all consumables like ribbons, computer stationery, and floppies
(ii) Maintenance of air-conditioners with voltage stabilizers
(iii) Supply and maintenance of batteries
(iv) Maintenance of efficient earth pit for lighting arrestors to be maintained b the AMC holder.
(v) Up keep of weigh cabin
(vi) Maintenance of drainage
(vii) Maintenance of input power supply

3.0 The contractor shall strengthen the earthing and to bring it to the desired level.

4.0 The Weighbridges shall be handed over to the contractor with the existing systems in working condition as is where is basis after completion of the warranty period. Contractor will have to continue to provide services for the awarded working Weighbridges consisting of existing digitizer, PC, Software, load cells/ sensors and other accessories irrespective of the make of the same. In case the Contractor feels the need to change any of the above items with their resources while commencing and during the currency of the AMC, the changes/cost of the same will have to be borne by the contractor without any degradation of the performance / weighment of the Weighbridges including its compatibility with the existing system with the consent of the Staff Officer (E&M) of the Area.

5.0 The CONTRACTOR shall deploy specially trained technical staff (excluding leave, sick and absenteeism). The technical staff of CONTRACTOR vis-à-vis Weighbridge should be 1:6. The CONTRACTOR should also post an expert Service Engineers one at Talcher Coalfields and one at Ib Valley Coalfields of MCL in addition to the above specially trained technical personnel. The technical personnel shall be qualified Diploma / Degree holders in Electronic / Mechanical / Electrical Engineering who is capable to handle the job independently at the quickest possible time.
The contractor shall ensure that the technical personnel posted for this purpose make adequate visits to the weighbridges for preventive maintenance / stamping etc.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Place of Posting</th>
<th>No. of Service Engineer</th>
<th>Address &amp; Phone No.</th>
<th>Area Covered</th>
</tr>
</thead>
</table>

The above furnished data should be submitted to the S.O.(E&M)s of concerned areas.

6.0 The service engineer along with technical personnel shall report in person to the Nodal officers of MCL one at Talcher Coalfields (Jagannath Area Office) and the other at Ib Valley Coalfields (Ib Valley Area Office) daily at 9.00 AM.

7.0 The nodal officer of MCL should be apprised about the status of the Weighbridges of the previous day by the service personnel of the contractor on the day to day basis. The CONTRACTOR shall also ensure that the technical personnel posted makes regular visits to the Weighbridge site for routine checking and preventive maintenance at least fortnightly.

8.0 The AMC rates is inclusive of all travel and other expenses of the persons deployed by the CONTRACTOR and are included in the rate of AMC, and no extra payment shall be made on this account.

9.0 The Staff Officer (E&M) or his authorized representative of the Area under which the Weighbridge is in operation shall be the Engineer–in-Charge for execution of this COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT.

10.0 THE AMC charges shall be paid as per clause No.9.0 under the head Measurement and Payments of General Terms and Conditions of Tender Document. The penalty during every six months, if any, shall be recovered from the bill before releasing the payment.

11.0 The paying authority of the premiums of COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT charges shall be the Area Finance Manager of the Area under which the Weighbridges are in operation. The bills shall be submitted to the Engineer–in–charge for processing showing the Service Tax separately as applicable.

12.0 The CONTRACTOR shall ensure that the Weighbridge is verified and stamped by the Weights & Measures Department, as per statutory norms and certificate is issued to this effect to the respective Engineer-in-charge / Project Officer. The CONTRACTOR shall ensure that the Weighbridge is not out of use on this account. The fees, if any, required for this purpose, shall be borne by the contractor and shall be reimbursed on actual to the contractor by the COMPANY. The COMPANY shall provide weights at the Weighbridge site and allow the usage of the same by the CONTRACTOR for Calibration and testing. However manpower requirement for annual verification and stamping shall be provided by the contractor.

13.0 The contractor shall keep the minimum inventory both at Talcher Coalfields & Ib Valley Coalfields to restrict down time of the Weighbridges:

14.0 The availability of each Weighbridge shall be more than 96.7%.

15.0 The CONTRACTOR shall ensure that in case of the breakdown of the Weighbridge, the same is attended within six hours of intimation to the contractor and the Weighbridge shall be rectified and put in to operation within 24 hours of intimation.
16.0 PENALTY shall be imposed by the COMPANY on the CONTRACTOR in case the Weighbridge in question remains under breakdown/shut down for more than six days in six months inclusive of periods mentioned in clause 12.

The penalty shall be calculated on half yearly basis as detailed below.

\[(\text{No. of B/D days} - 6) \times \text{Contract charges per Annum} \]

\[\frac{353}{3} \]

Where:
No of Breakdown days = (No of Breakdown hours) / 24
BD hours of 12 and more shall be taken as one day.

This penalty amount shall be deducted from the bill.

16.1 In case of non functioning of minor parts viz UPS without batteries, CVT and stabilizer, provided in the Weighbridge is in operation and Print out is obtained, penalty on account of failure of the minor parts as specified above @ Rs.500/- per day with a grace period of 6 days in each half year, subject to a maximum of Rs.6000/- per half year, shall be levied.

16.2 In case the Weighbridge remains idle for more than 7 days at a stretch, the Company may get the same repaired by other agencies and the cost incurred for the same on actual plus 10% handling charges shall be deducted from the Contractor’s bill.

17.0 The old parts which are covered under the scope of the Supply of CONTRACTOR, and have been replaced by the CONTRACTOR with a new one or repaired one, shall be the property of the CONTRACTOR.

18.0 The COMPANY (MCL) shall ensure that the power supply lines to the Weighbridge instrumentation should not be used for any sort of electric arc welding at or near Weighbridge or for any heavily fluctuating loads. In case of use for urgent requirement, the supply to the instrumentation shall first be cut off.

19.0 a) THE CONTRACTOR shall be liable for the implementation of the provision of contract labour regulation and abolition acts and rules thereof, payment of wages act and payment of wages act (mines) rules, Minimum wages act and the rules thereof and any other legislation which are obligatory for the CONTRACTOR towards his employees during the currency of the CONTRACT.

b) The contractor should ensure that his service crew observes all the prevailing safety norms while working.

c) THAT the CONTRACTOR shall provide full medical treatment / compensation to his staff and labour in case of accident on duty. The COMPANY shall have no responsibility whatsoever of / towards staff / labour deployed by the CONTRACTOR.

20.0 THAT in no manner the COMPANY is liable to the CONTRACTOR or any member of his staff or any other person or to Government or other bodies for injuries or death caused as a result of accidents either within or outside the working areas including siding and Weighbridge in the course of work. The CONTRACTOR shall be responsible for such contingencies and make good all claims for compensation claimed by his labour or staff or as decided by appropriate authorized tribunal or other component agencies and discharge as the case may be, all liabilities under the workmen’s compensation act and any other relevant laws of the land. The CONTRACTOR shall also indemnify the COMPANY disburse all the sums that may be awarded in respect of claims for the compensation arising out of or consequent to any staff or labour working under him or any other involved persons pursuant to the provisions of the workmen’s compensation act (VIII of 1923 and 1933) or any subsequent modification or amendment to the act thereof of any other enactment of
law in force at the relevant time. All costs incurred in connection with any such claim should be made good by the CONTRACTOR and the COMPANY reserves the right to pay in the first instance the amount of compensation as is payable under the said act and to recover the amount so paid from the CONTRACTOR. The CONTRACTOR agrees to make payment of such amount paid by the COMPANY immediately on demand failing which the amount so paid will be realized from the bills for the purpose.

21.0 The COMPANY shall keep the Weighbridge pits cabin and platforms clean and the drainage systems will be kept in working order free from obstruction. In case of any lapses found on this account the CONTRACTOR shall report this matter in their service report and also enter the matter in the register kept for this purpose in the Weigh Cabin which should be maintained by the COMPANY and periodically checked and signed by the NODAL officer/Engineer-in-charge who should take action for rectification of such problems.

22.0 THE CONTRACTOR shall submit service reports jointly signed by the servicing personnel and the NODAL officer / Engineer-in-charge or his authorized person of the Area to the office of the CGM / GM of the Area for his record on monthly basis for all the Weighbridges covered under this CONTRACT.

22.1 Each service report shall include the details of services rendered, the parts / sub-assemblies rectified / replaced, general suggestions if any for upkeep of the Weighbridge and to certify the healthiness before declaring it fit for operation.

23.0 Entire period of AMC should be covered by Bank Guarantee for a value equivalent to 10% cost of the weighbridge as per supply order.

24.0 The Comprehensive Annual Maintenance Contract of Weighbridges shall be commenced from the next day of completion of warranty period or handing over of site (if applicable), whichever is later.

25.0 But joint inspection / assessment shall not in any way delay in attending to the Weighbridges, beyond the permitted timing as detailed in Clause 15, otherwise penalty as per Clause 16 shall be applicable.

26.0 To improve the service back up, the CONTRACTOR shall establish a contact point at Talcher Coalfields & Ib Valley Coalfields of MCL, with communication facilities like Telephone with STD facility to keep effective liaison with the MCL’s authorized persons for timely communication of reports.

27.0 THE CONTRACTOR shall maintain a stock of important spares / components also at this contact point for quick replacement of the damaged components / spares as and when needed by the servicing personnel deployed by the CONTRACTOR at various places.

28.0 IN case CONTRACTOR fails to supply required spares in time, COMPANY may provide spares at their own cost to re-commission the Weighbridges but the cost of the spares including handling charges @ 10% will be recovered from the bills of the CONTRACTOR.

29.0 It shall be the responsibility of the CONTRACTOR to hand over the Weighbridges in working condition to the NODAL officer / Engineer-in-charge at the end of the AMC period, failing which the amount required to put the Weighbridge in operation after repair on actual plus a penalty @ 10% of the repair Bill will be deducted from the Contractor’s bill.

30.0 In case of any dispute, the matter shall be referred to the General Manager (E&M), MCL HQ, whose decision shall be final and binding on the Company and the Contractor.
31.0 At the time of the Agreement, the Name, Phone No. and address of the Service personal shall be
turned by the contractor.

32.0 Removal of Service Engineer / Service personal shall be conducted by the contractor if the
behaviour of any service personal of the Contractor is found to be detrimental to the image / interest
of the Company, on recommendation by GM(E&M ).

33.0 The Weighbridges which are covered under warrantees / AMC shall be considered for the
Comprehensive Annual Maintenance Contract only after completion of the warrantees period / AMC.

34.0 Going on leave/sick/station absence by the Service personnel even for a day shall be intimated to
the Engineer-in-Charge / Nodal Officer and a replacement is arranged in his place, whose address
and telephone No, shall be intimated to the Engineer in Charge/Nodal Officer.

35.0 The quantity of the Road Weighbridges may increase or decrease during the AMC period.

36.0 The COMPANY reserves the right to CANCEL, TERMINATE/ REDUCE the period of AMC by
giving ONE MONTH’S NOTICE in case of UNSATISFACTORY PERFORMANCE/ BREACH OF
THE TERMS & CONDITIONS of this agreement, without prejudice to its rights as may have
accrued.

37.0 On completion of the warranty period, Contractor is required to enter into an agreement with
Company on the AMC.

45. Integrity Pact: (applicable for tendered value over Rs.50 Lakhs):
The bidder has to accept the user portal agreement in which he has to mandatorily accept the integrity pact
(as given in the NIT at Annexure-F) along with other terms & conditions. Hence, it is not required to down
load the integrity pact format and upload the same after signing it.

Name, address and contact Number of the Independent External Monitor:

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Contact Number</th>
</tr>
</thead>
</table>

46. This tender and resultant supply order will be governed by CIL purchase manual / guidelines of CVC, New
Delhi/ Govt. of India and extant procedures of MCL issued from time to time.

General Manager (MM / HOD)

Encl:

Annexure “A” General Terms and Conditions of Supply of Stores
Annexure “B” Format of Letter of Bid
Annexure “C” Format for Authorization to DSC holder Bidding Online by the person who has signed
Letter of Bid
Annexure “D” Format of bank guarantee for Security Guarantee
Annexure “E” Format of bank guarantee for Performance Guarantee
Annexure “F” Mandate form for Electronic Fund Transfer/Internet Banking payment
Annexure “G” Issue & Utilization Procedure of e-Way Bill
Annexure “H” Integrity Pact
<table>
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<tr>
<th>Item Code</th>
<th>Description of Item</th>
<th>Specification Parameter</th>
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</table>
| 1        | Supply, Installation & Commissioning of 100T electronic Road Weigh Bridge along with computer and printer. | 100 T electronic road Weighbridge having the Statutory Model Approval from Legal Metrology, GOI for commercial purposes and consists of following components:  
Electronic Road Weighbridge Static  
Capacity : 100 Tonnes  
Platform size : 16 METER x 3 MTR, Bidirectional  
The weighbridge as a whole should confirm to IS 9281 as amended upto date and relevant Legal Metrology rules of the Govt. of Orissa/ the Govt. of India. Manufacturer’s test certificate in respect of all requirements specified in IS 9281 as amended on date to be furnished by the successful bidder for each electronic weighbridge at the time of supply. Indian Standards as published by the Bureau Of Indian Standards and all the rules and regulations of the Legal Metrology Department shall be followed during supply, installation, warranty and Comprehensive AMC.  
Resolution : 10 kg  
Accuracy : The weighbridge should confirm to Accuracy Class III as per Legal Metrology Department  
Number of Loadcells: 6 (six)  
Robust Construction : The weighbridge is likely to be used on 24 X 7 basis and more than 500 nos. trucks are likely to be weighed in a day (24 Hrs). Hence the over all construction of the weighbridge should be very robust and suitable for functioning in the coal mines.  
Power Supply:  
a) Service connection for nominal 230 V AC supply upto switchboard in the weigh cabin, will be provided by MCL in the weighbridge room at one point. The main switchboard will be provided by MCL. The wiring required to connect the lightning protection system, Servo Stabilizer, UPS, weighing equipment PC, Printer or any other accessory as required inside the weigh cabin will the responsibility of the successful bidder and shall be carried out with copper wiring PVC insulated of suitable size in PVC conduit as per latest CPWD specifications. All such works must be technically and aesthetically sound and standard based, confirming to IE rules wherever applicable. The successful bidder should provide at least two nos. additional 5 A power sockets for future requirements.  
The bidder will ensure that protections provided in the equipment work properly in case of any abnormal electrical condition or lightning. The bidder will ensure to provide necessary protection system/module for the entire weighing system from lightning. MCL will make best efforts to ensure a healthy power supply. However, any damage caused to any equipment, supplied under this supply order, due to lightning and/or abnormal power supply or any other electrical disturbance, has to be rectified/repair by the bidder without any extra cost to MCL during warranty and/or CAMC. |
Stamping and Verification by the Legal Metrology department, Govt. of Odisha: The successful bidder will be responsible for ensuring the initial stamping and verification of the weighbridge by the Legal Metrology Department of the Government of Odisha. Necessary test weights required for verification of the weighbridge will be provided by MCL. Transporting the test weights from the storage site to the weighbridge site, and subsequent loading and unloading on the weighbridge for testing will be the responsibility of the successful bidder. Necessary statutory fees payable to the Legal Metrology Department will be borne by the successful bidder. Subsequent re- verifications, if necessitated, during the warranty period will also be the responsibility of the successful bidder in the same fashion. However, the cost of the re-verifications necessitated due to the causes covered under Force Majeure, will be borne by MCL.

Weightbridge data with truck no, work order details etc. to be uploaded to the Central VTS / Coalnet Server on real-time basis through GPRS. Necessary software and GPRS connectivity to be provided by the weighbridge vendor.

IP camera to be provided in weighbridges by the weighbridge vendor for capturing snapshot and the same should be stored in the local PC and to be transmitted to the Central VTS/Coalnet server along with weighment data through GPRS.

In case of road sale i3Ms software should be allowed to install in the PC of static weighbridge supplied by the weighbridge vendor.

Any modification in the software for weighbridge required time to time is to be done by the weighbridge vendor without any additional cost to MCL.

Any changes to integrate weighbridges with the ERP systems in to be done by the weighbridge vendor free of cost.

RFID reader and provision for necessary software should be there.

The RFID tag reader should read the existing RFID tags also.

All the components (hardware & software) using internet protocol should be IPV6 compliant.

Vendor should comply that the latest e-waste guide lines of Govt. of India.

LAN port of the printer should be 100/1000 MBs or latest.

PC, Printer, RFID reader, IP camera etc. are to be maintained by the weighbridge vendor.

### Lighting Protection System

Stage 1 Protection (Power line protection at Distribution level) shall consist of coordinated Class I/ B & II/ C type SPDs at the entry point of input 230V AC supply in the weighbridge room in TT configuration in a separate wall mountable box. The Class I/B SPD shall be provided between Line to Neutral & Neutral to Earth. The successful bidder will supply and install a lightning protection system consisting of “Class -B Lightning arrester with class -C surge arrester protection system (100KA,10/350 us 7 coordination coil duly wired in TT configuration for three phase use up to 63 amps load, 230VL -N, 400 VL -1 input range with IP20 degree of protection meeting IEC 61643 (updated) standards with class -1 insulation.” as per specifications enclosed.

### Servo Stabilizer

SERVO MOTOR OPERATED LINE VOLTAGE CORRECTORS SUITABLE FOR PHASE VOLTAGE RANGE 120 TO 280 VOLTS: Qty: one no.

Specification: Servo motor operated automatic line voltage correctors (LVC) copper wound indoor type, continuous duty, conforming to IS: 9815 (Pt.1)/1994(Reaffirmed 2009) suitable for phase voltage of 120-280 volts. Rated output voltage shall be 240V for single phase LVC.
### Earthing

2 (two nos.) chemical earthing as per drawing enclosed. Arrangement of good chemical earthing should be made by the successful bidder as per details mentioned. Additional requirement of earthing at any other place/equipment, if required should also be arranged without additional cost. One no. earthing to be connected with the lightning protection system and other one for the equipment. IS 3043 will be applicable.

### Fully Electronic

The model quoted by the bidder in the TPS must be having a valid "Model Approval" from the Legal Metrology Department, Govt. of India. A notarized scanned copy of the model approval will be required to be uploaded as asked for in the relevant Para under the "Confirmatory Documents".

### Electronics: The Digitizer

- Designed with built-in self-diagnostic facilities such as Auto-Zero, auto gain, auto calibration and to automatically calibrate at fixed intervals during non-weighment.

### Lightening Protection

- The digitizer should have lightening protection devices which must be guaranteed for its application.

### Tamper Proof:

- (a) The junction Boxes, Hardware cabin etc. should have the arrangement of bolting/locking to prevent it being tampered by unauthorized persons.
- (b) Moreover, junction boxes, hardware cabins must be moisture and dust proof.
- (c) The sub-assemblies/assemblies, alteration of which can lead to erroneous weighment should be made as tamper proof as feasible.
- (d) During calibration, PC should be disconnected.
- (e) Digitizer should work independently without PC
- (f) Calibration and adjustment of weight should be through hardware switch, soft key or key board linked with digitizer.
- (g) The calibration mode should be disabled through hardware jumper/dip switch in the electronics card which should not be accessible after sealing of digitizer.
- (h) Calibration through CPU is not acceptable.

### Additional Display

- An additional display unit at a suitable place outside the cabin of weighbridge for clear viewing of drivers in daylight or in darkness.

### Junction Box:

- Protection Class: IP 65 Tamper proof
- Connection: The loadcell cable should pass through metallic pipes of suitable dia, securely anchored/welded with the weighbridge platform and no where the load cell cable should be exposed.
- Glands of Entry: Double compression type
- Minimum 30 mtrs cable or more as per site requirement along with GI pipe of at least 3" dia should be provided between the outdoor junction box and the weigh cabin. The metal pipe should be installed below ground (if required). The interconnecting cable between the junction box and the digitizer should be shielded and having sufficient strength and moisture proof. All the cables including the loadcell cables with associated plugs, connectors & other accessories as required for installation shall of sufficient strength and designed to withstand the mining environment. The cables, pipes and other accessories should be layed aesthetically and should not obstruct the movement of persons & vehicles in the vicinity of the weighbridge. There should not be any loose hanging cables/wires etc.

### Loadcells

- The loadcell must have IP68 or IP69K protection
- Capacity: Minimum 30 tonnes or more. Hermetically sealed
| The load cells should confirm to IS: 9281(Part-III) Manufacturer's test Certificates in respect of all requirements specified in IS: 9281 (Part-III) as amended on date, will be required to be submitted at the time of supply. |
| Suitable arrangement to prevent horizontal disturbing forces getting transmitted to the loadcells shall be provided. |
| Arrangement to prevent unwanted electrical interference like welding and lightning etc. to protect the Loadcells. |
| Lightening Protection: The loadcells must have inbuilt lightning protection and guaranteed for its application. |
| Test Certificates: Conforming to OIML/NTEP/DIN |
| The weighbridge structure should be robust and fabricated of steel of 600 mm ISMB girder. The structure shall be suitably painted with two coats of anti corrosion paint. The entire structure shall be mounted on six nos. load cells which will be anchored and grouted on six concrete pedestals. The structure of the platform to be decided from E&M deptt. Weight of platform to be specified. |
| Platform Material for steel construction confirming to IS 2062 as amended on date. No re-rolled material should be used. Material test certificate should be provided at the time of supply. |
| Fabrication & Construction conforming to IS 800 |
| Platform top plate thickness: be minimum 10 MM chequered steel plate as per IS 2062 with up to date amendment. |
| Platforms and top deck shall be painted with two coats of anticorrosive and one coat of finished paint on all steel structures after preparation of surface to be applied for protection against corrosion/rust. |
| Nut & bolts, fasteners to be used should be High-tension (HT) only. |
| Total weight of the structure should be at least: 12000 KG |
| Weighbridge Platform |
| Capacity: 3 KVA |
| True Online |
| Efficiency (at rated output KVA Rating, rated Pf , rated voltage and frequency) |
| a. Overall efficiency (minimum): 90% |
| Input: 160V-260V, 50 +/-3% Hz single phase AC |
| UPS Power Factor at rated load: better than 0.9 lagging at input side |
| Output: 230V +/-1%, 50 +/-0.5Hz, single phase. |
| (e) Waveform: True Sine wave |
| (g) Total harmonics distortion at output: 2% maximum on resistive load |
| (h) Cress Factor: 3:1 |
| (i) Duty: Continuous |
| Operating Temperature: 0°C to 55°C |
| Noise Level > 55 db |
| Overload: Over load: UPS shall withstand 20% overload for 10 minutes and 50% over load for one minute |
| Protections: Following protection shall be provided in UPS: |
| a. Over voltage, short circuit, and overload at UPS output terminal. |
| b. Under voltage at battery terminal. |
| c. Over shoot and under shoot shall not be greater than 4% of rated voltage for duration of 40m sec. (maximum). (over shoot is the abrupt increase of out put voltage when the out put load is changed from full-load to no- load. Similarly under shoot is the abrupt decrease of out put voltage when the out put load is changed from no-load to full load.). |
| (d) Lightning Protection |
| Alarms: Mains Failure & Battery Low |
| Cold Start Facility: The UPS shall be able to start directly on Battery in absence of mains supply. |
| Online UPS |
Bypass : (a) static Service Built in (b) Static Service built in to manually transfer load to mains power or stabilizer

Indicators and meters
a. Following indicators shall be provided:-
   (i) Mains presence.
   (ii) Battery charging and discharging
   (iii) Output overload
   (iv) Low battery voltage.

b. Digital meter shall be provided for monitoring the following parameters in UPS:
   (i) Input AC voltage.
   (ii) Output AC Voltage, current and frequency
   (iii) Battery voltage and current.

Battery : (a) Type : SMF (b) Back up Time : Two hour minimum

UPS shall be supplied with 12 volts SMF VRLA batteries as per JISC:8702 only

The UPS shall be complete with suitable battery stand made of steel for battery bank, battery, Cables and connectors etc.

Minimum VAH rating of battery bank : 9600 VAH

VAH Rating of the battery bank will be calculated as follows :
VAH Rating : No. of Batteries X Terminal Voltage of one battery X Ah rating of one battery

Battery Rack made of steel and painted suitably to be provided by the successful bidder

RJ45 Port : one no. The UPS should be equipped for remote monitoring through SNMP protocol (LAN Network)

The Laser Printer will be connected to output of UPS for generation of online gate pass. The UPS should be equipped to withstand the load of the Laser Printer for continuous printing of the online gate pass and other documents as required.

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**Desktop PC**

Interfaces : At least 2 (two) nos. RS232C Ports, At least 2 (two) nos. RJ45 (LAN) ports, plus any other ports as required for operation of the weighing system.

**Software for weighbridges**

Road weighbridges are to be used for weighment of Trailer/ trucks, empty (tare weight) as well as filled with coal (gross weight) for supply to consumers (outside parties) and also for transportation of coal (internal use).

The software to be developed for the existing as well as the planned weighbridges should have the following:

At the time of installing the software should accept the following data.
- Name of the company in full, 30 characters long
- Name of the area in full, 15 characters long and
- Name of the weighbridge in full, 15 characters long

Once the software is installed in a particular Road weighbridge no provision should be given to alter the data entered above.

All date and time values are to be taken from the system date and time.

The software should print Gate Pass, Daily Report and Monthly Report of the weighment done in the weighbridge as per the formats enclosed & DO wise report.

Creation of master information : Details of the D.O data to be captured on PC before weighment is given below:

**For Consumers (Outside parties):**
Creation of master:
a) Delivery Order number and date, 15 characters long and British date.
b) Name of the consumer as per D.O., 35 characters long
c) Address of the consumer as per D.O., 35 characters long
d) code as per D.O., 4 characters long.
e) Grade as per D.O., 3 characters long
f) Size as per D.O., 5 characters long
g) Source unit as per D.O., 15 characters long
h) Released quantity as per D.O., 5 integers + 2 decimals
i) Validity period as per D.O., British date format.

**Updation of existing D.O data : Only the following data is to be updated**

a) Revalidation Ref.No. if any, 5 characters long
b) Revalidation period, British date format
c) Adjustment Ref No. if any, 5 characters long and
d) Adjustment qty, 2 integers + 2 decimals.

For internal transportation: The master is to be created and updated with

a) The truck number, 10 characters long
b) Tare weight, 2 Integers + 2 Decimals (in tonne).
c) Date of updation, British data format
d) Transporter’s name, 35 characters long.

Provision for updating the tare weights along with the date of updation should be provided.

The tare weight (from the truck master in case of internal use), gross weight of each truck with truck number and grade & size lifted should be recorded in the PC along with the date and time of weighment.

Software should ensure that both tare weights and gross weights recorded are fully protected/guarded against any updation later.

In case of supply to outside parties the software must check whether balance quantity (minimum of 8 Tonnes) is due for lifting against the D.O at the time of weighment of tare itself. If the balance quantity is less than the minimum 8 Tonnes the tare weight should not be accepted/recorded.

The software should also check the validity of the D.O and if the validity period has expired then the tare weight should not be accepted/recorded.

Again the quantity being lifted adds up to more than the released quantity in the D.O then the Gate Pass should not be printed unless the released quantity is adjusted by competent authority.

Provision in the software should be incorporated to print a warning in the gate pass if the balance quantity against the D.O., is 20 Te or less.

Provision should be given in the software to adjust the balance quantity against the consumer in case of increase in price of coal, sales tax etc.

Provision in the software must be made to reprint the gate pass in case of damaged gate pass etc.

The software should have the provision to give a daily and monthly road despatch report as per format enclosed. A sample of the gate pass is also enclosed.

Provision should be given in the software to copy the weighment details by a master password holder on to a floppy for billing purposes in the area or for creating backups.
Only executable files of the software should be loaded in the weighbridge PC. No other software should be provided in the weighbridge PC.

Source code should be provided to MCL

Material
D.O
Lifted
Party Name:
From :
To:

Tare weight: Date: Time:

Gross weight: Date: Time:

Net weight: Progressive Qty: Balance Qty:

Remarks
Note : All weights are in Tonnes

Signature of W/B Clerk

Printer
Laser Printer is required.

Weighbridge Foundation and approach
The weighbridge platform should be at least 1000 MM above the ground level for ease of cleaning. The weighbridge foundation, concrete pedestals and approach road should be constructed by the successful bidder.

Cleaning of weighbridge
The cleaning of the weighbridge cabin, weighbridge equipment and weighbridge platform including cleaning/ removal of mud/muck etc. from the top of the weighbridge platform and below the weighbridge platform will be the responsibility of the successful bidder during the warranty & CAMC.

Period of rectification
If the weighbridge goes under breakdown during the warranty the same has to rectified within 48 hours of reporting the same to the supplier, by FAX, E-mail SMS , over phone etc.

Comprehensive AMC
After completion of the one year warranty period, the successful bidder has to provide Comprehensive AMC service for five years.

**TECHNICAL PARAMETER SHEET OF IN-MOTION ROAD WEIGHBRIDGE**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description of Item</th>
<th>Specification Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Supply, Installation &amp; Commissioning of 100T in motion Road Weigh Bridge with RFID features.</td>
<td>100 T Road In-motion road Weighbridge having the Statutory Model Approval from Legal Metrology, GOI for the Weigh-in-Motion WB for commercial purposes and consists of following components:</td>
</tr>
</tbody>
</table>
### 1. Weighing Platform:
The load bearing weighbridge platform shall be of rigid construction to withstand the movement of loaded truck. The entire weigh platform shall rest on four nos. of load cell. The platform and its structure shall be designed for rugged outdoor application under extreme weather conditions with adequate sections to eliminate deflections/vibrations etc. The rigid and strong construction of weighbridge mechnicals shall enable practically zero deflection of structures and result accurate weight transfers to the load cells. Further, there shall not be any moving parts in the weighbridge, so that there shall be no wear and tear of any component. The platform will be of min. size 0.7m x 3m x 0.35m (LxBxH) and the structure will have min. 1.5 Te dead Weight. Weighing platform should comprise basic weighing platform, outer frame, load cell mountings, etc. The structure suitably painted with two coats of anti-corrosion paint.

### 2. (I) Foundation:
The foundation shall be of reinforced cement concrete (RCC), suitable for Coal Carrying Truck/Trailer and to accommodate anchoring and grouting of suitable weighing platform with four nos. double ended shear beam type load cells and have suitable drainage facility to drain-out the Mines residuals.

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. The top surface of weighing platform shall be of height 1.0 mtr from the ground level.</td>
</tr>
<tr>
<td>b. The bottom of the weighbridge platform should constitute a layer of Sand with Morum (1:1) and layer of 42-90mm ballast, etc. (the thickness of which depending on the CBR value of the soil) and suitable for Coal Carrying Truck/Trailer.</td>
</tr>
</tbody>
</table>

### 2. (II) Approach Road:
15 Meter approach road on both sides having load bearing capacity of 100 MT gross weight of the truck is not covered under the scope of work of the bidder. The firm may visit to the site to ascertain the soil condition before quote for the above.

### 3. Loadcell:
Hermetically sealed, IP-68 protected, strain gauge based, Double ended Shear beam type Load Cell with lightning protection.

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. No. of Loadcells: 4 (Four)</td>
</tr>
<tr>
<td>b. Capacity: Rated capacity of each load cell shall be min. 20 T.</td>
</tr>
<tr>
<td>c. Sensitivity: 3.0 mV/V +/- 0.01</td>
</tr>
<tr>
<td>d. Safe Over Load: 200% of Rated Capacity</td>
</tr>
<tr>
<td>e. Ultimate Over Load: 300% of Rated Capacity</td>
</tr>
<tr>
<td>f. Minimum Insulation resistance: 1000 M ohm at 30 V DC at 30 deg C</td>
</tr>
<tr>
<td>g. Cable should be shielded and Teflon based.</td>
</tr>
<tr>
<td>h. Protection Rating shall be IP-68 (Weatherproof, Dustproof, Moisture proof/waterproof).</td>
</tr>
</tbody>
</table>

### 4. Junction Box:
shall be weather proof, water proof with IP56 protection.

### 5. Digitiser:
Weighbridge shall have independent Digitizer for processing the signal generated by the strain gauges based Load Cells. The Digitiser should be Microcontroller based. The digitizer enclosure shall be of Industrial type. The Digitiser shall be of table top type and shall be dust and vermin proof. The Digitiser shall conform to IP:54 protection class. The system shall be designed with a built in self diagnostic facilities such as auto-zero, auto-gain, auto-calibration and auto-calibration at fixed intervals during non-weighment. The system shall also announceate over loading conditions. The system (digitizer) shall have lightning protection devices (which must be guaranteed for its application). The power supply system of the digitizer must have protection from over voltage, under voltage & current shrink.

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Standard Interfaces (Min.): Opto isolated Input – 1, RS-232 – 2 nos., USB – 2 nos., 4-20mA – 1 no., Parallel Centronics Interface – 1 no.</td>
</tr>
<tr>
<td>b. Dual High bright LCD / LED displays suitable to display Weight and other parameters.</td>
</tr>
<tr>
<td>c. 4” External Jumbo Display with 10 mtr. Cable for External Weight display.</td>
</tr>
<tr>
<td>d. In-built memory for 1000 trunk transaction with direct print-out facility.</td>
</tr>
</tbody>
</table>

### 6. The components of the weighbridge shall be tested as per relevant IS or International standards.

### 7. Weighbridge shall be of Pit-type design with suitable drain facility to flush-out Mines residuals.

### 8. Weighing Capacity – 100 T
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
</table>
| a. | Accuracy : +/- 1% or better.  
| b. | Mode of weighing: In-motion  
| c. | Weighbridge shall be able to weigh upto speed of 5 Km/hr.  
| d. | Speed of the Truck should be taken during Weighing and the same should be printed on the Gate Pass/Challan.  
| e. | Ensure the Weighing should be recorded when axle of the Truck is in the middle of the weighing platform.  
| 9. | Weighing shall be dynamic axle weighing type.  
| 10. | The weighbridge shall be fully computerized (Electronic) and Four (4) loadcell based.  
| 11. | Direction of weighing: Both direction  
| 12. | Type of weighing: All types truck application  
| 13. | Truck Axle identification and classification  
| 14. | Power supply : 230 V AC, +/- 10 %, Single phase, 50 Hz  
| 15. | **PC Specification:**  
| Make: | Compaq/Acer/Wipro/HCL/HP  
| Motherboard : | Intel  
| Processor- | Intel i3/i5 or higher Processor with internal clock speed 2 GHZ or higher with 2 MB L2 cache with latest modifications.  
| System Bus: | 1333 MHZ or higher  
| Chipset: | Q45 or higher  
| Memory: | 4GB DDR3 or higher.  
| Hard disk: | 320 GB or higher, 7200 rpm/100 GB.  
| Video Graphic display: | AGP 4X Graphic support/ slot.  
| Monitor: | 18.5” inches LCD digital color monitor.  
| Optical Drive: | DVD Writer  
| **I/O EXPANSION SLOT:** | 2 PCI slots, AGP slot WITH AGP 4x support, 1 CNR slot  
| I/O interface: | (1) 1 parallel ECC/EPP/ECP/port with D type female 25 pin connector  
|   | (2) 1 PS2/USB keyboard port  
|   | (3) 1 PS2/USB mouse port  
|   | (4) 2 High speed 16550 compatible serial ports  
|   | (5) 4 or more high speed USB 2.0 port  
|   | (6) 1 RJ-45 LAN Port  
| Mouse: | Microsoft compatible 2 button optical scroll mouse (Intelligent)  
| Keyboard: | 107 or higher keys keyboard  
| LAN: | 10/100/1000 Mbps extra Ethernet Card with remote boot on PCI Wake on LAN support  
| Storage bays: | One external 5.25” bay extra  
| Operating system: | OEM Microsoft Windows 7 with DVD media.  
| Certifications: | (1) NSTL  
|   | (2) Energy star  
|   | (3) EMI/EMC (Large cases)  
|   | (4) FCC on power  
|   | (5) WLP 2.0  
|   | (6) DMI 2.0  
|   | (7) ISO 9002  
|   | (8) CE & FCC Test report prepared by authorized third party shall be submitted.  
| Virus protection: | Norton Anti-virus software latest (with minimum one year license) with CD media  

32
Printer:
Type: Mono laser printer (A4)
Resolution: 600 x 600 (1200 dpi type or higher)
Speed: 25 PPM or higher for A4 in normal mode, first page out 10 seconds or less
Memory: 32 MB or Higher
Processor: 400 MHz or higher
Paper Size: A4 and Legal including Envelops & letter
Paper Handling: 250 Sheets or More Paper handling capacity on output, Multi-purpose Tray
Std Paper Trays Input: 10-sheet priority feed slot, 250 sheet input tray
Interface: USB / RJ45
Duplex printing Capability: Manual
Duty Cycle: 48,000 Pages per month or higher
Connectivity: One USB port & Fast Ethernet 10/100
N/W Print Mgmt S/W: Needed
OS Support: Vendor to provide drivers for supporting all the required OS
One extra set of original ink / toner cartridges of OEM make to be supplied with each Mono Laser Printer (A4) in addition to the one set provided with the printer
LAN port of the printer should be 100/1000 MBs or latest.

All the components (hardware & software) using internet protocol should be IPV6 compliant.

17. Line Conditioner/ CVT: Single phase 2 KVA of reputed make with Output 230V +/-5%, Input 160V AC to 230V AC shall be provided to minimize the sharp fluctuations in Input voltage/ current & provided against lightening with spike guard of 2 KVA capacity.

UPS:Make: Numeric/ Tata Liebert/ APC/ TVSE
Capacity: 2.0 KVA
Type: True On Line
Technology: IGBT based PWM technology or latest.
Cooling: Forced Air
Efficiency: (a) UPS >85% (b) DC to AC > 90%

| Input: | (a) Voltage: 160 V AC |
| to 280V AC | (b) Single phase |
| (c) Frequency: 50 HZ +/- 3% | (d) Power Factor |
| 0.8 lag to unity |

| Output: | (a) Voltage: 230V AC +/- 1% for load variation of 50% to 100% |
| (b) Single phase |
| (c) Freq: 50 HZ +/- 0.25 HZ |
| (d) Power Factor: 0.8 lag to unity |
| (e) Waveform: True Sine wave |
| (f) Harmonic distortion: THD < 5% Single Harmonic distortion < 2% |
| (g) Transient response: For 100% step change, output within +/-5% of nominal value and recover to nominal within 1 cycle |
| (h) Overload: 150% for 1 minute or better ; 125% for 5 minutes or better |
| (i) Crest Factor: 3:1 |
| (j) Duty: Continuous |

Operating temp: 0 to 55 degree C

Noise Level: Less than 55 Db

Protection from: a)Output Overload b)Short Circuit c)Over charge d)Battery low e)Spikes f)Surges g)Blackouts h)Brownouts i) Inverter over voltage/under voltage j)Sags k)Transients l)Lightening protection

Audible alarm: Mains failure and Battery low

Cold start facility: The UPS shall be able to start directly on Battery in absence of mains supply.

By pass: a) Static Service built in (b)Static Service built in to manually transfer load to mains or stabilizer.

Meters/Display a) AC input voltage (b) AC output voltage (c) AC output current (d) DC Volts (e) DC current

Indicators : a) Mains On /Off (b)Inverter overload (c) Overcharge (d) Battery low (e) Over voltage/under voltage (f) Bypass mode (g) Battery On/OFF

Interface: The UPS shall have built-in RS 232 port for serial communication with
Battery: (a) Type-SMF (b) Back up time – Two hour (min).

19. RFID:

a. RFID Reader/Writer

Detection Technology: RF Frequency based. (UHF). Frequency shall be de-licensed by WPC. Any kind of POD to be submitted along with technical bid.

Operating range: Read up to 08 Meters and write up to 05 Meters (at least).

b. RFID Features

Interference elimination.

High data speed and anti-collision for multi tag reading

Advanced Anti-Jamming

RFID Reader should have built-in Antenna and should be compact.

The RFID tag reader should read the existing RFID tags.

RFID reader may also be considered for static weighbridges and provision for necessary software should be there.

PC, Printer, RFID reader, IP camera etc. are to be maintained by the weighbridge vendor.

The system should work well in dirty, electrically noisy, and metallic environments.

All equipment should be outdoor type. The system should be designed such that it is not damaged by lightening, extreme temperatures and other natural calamities.

Adaptability and total compatibility between the various components of the system should be ensured.

Frequency: UHF Band and shall be de-licensed by WPC. Any kind of POD to be submitted.

System should support both Read and write action on either hopping frequency or fixed frequency carrier as required

Power output: 5dBm to 30dBm +/- 1.0dBm to achieve optimal performance.

Communication Interface: 10/100 Base-T Ethernet Interface, Serial port – RS232, 12 pin screw Terminal Connector at least.

Read/Write Distance: System should be capable to Read in the range of 0 ~ 8 meter or more in clear throw mode and should be able to write in the range of 0 ~ 5 meter from the tag in normal mode. It should also be adapting to track the vehicle approaching up to a speed of 100 Km/hour.

Regulatory and Standard: ISO/IEC 18000-6B

Accuracy: 99.99% or better.

TAG Buffer: More than 1,00,000 RF Tags

Minimum TAG Reading capacity: 150 or more TAG /second

Minimum TAG writing capacity: 05 or more TAG /second

Network Protocols: Should Support DHCP, TCP/IP, DNS, SNMP, SNTP (Simple Network Time Protocol), IPv6 etc.

Compatibility with RF tags make other than the quoted.

System platform: API development kit, supports ASP.NET, C#, JAVA, VB, VC development

Operating Temperature Range: - 5º to 60 Degree Centigrade or better

Mounting: Pole Mounting / Tower Mounting or Wall Mounting

Humidity (non-condensing): should be able to work at 90% RH maximum.

c. RF TAGS:

No. Tags – 200

Contact less RF based TAG.

Should have factory programmed world wide unique ID. TAG ID should not be edited/ re-programmed.

Encasement: Rigid Case (ABS/PC)

Protection Class: IP68

Read Environment: Mount on metal and Glass both

Programmable, contact less & passive TAG

Re-usable with minimum 1,50,000 write cycles.
Operating frequency preferably general frequency wherein no separate frequency clearance is required. However, in case a clearance from WPC wing, Dept of Telecommunications, Ministry of Communication & IT is essential for the carrier frequency of the equipment offered then the operating license for the same shall be arranged by the vendor / supplier and the charges for the same shall be included in the supply.

Provision to mount the TAGS on the vehicle windshield supply of TAG mounting Kit is also within the scope of supply of complete system.

RF Tag should have Coal India logo printed on it.

RF tag should be tamper proof to avoid duplication/ malpractices.

The supplier will be required to supply the similar RF tags in future also if required for maintenance free and efficient operation of the system for minimum next 06 years.

Operating temperature Range : -5° to 70° Centigrade or better

Provision of sufficient storage memory in RFID Reader should be made so that more than 1,00,000 RF TAG IDs could be stored.

RF Tag should be such that RF ID Reader can verify, if the read tag is authorized one or not.

RF Tag should have provision for Offline capture of time and date.

RF ID Tag should be such that with its identification the RF ID controller could operate the access control system as well as the other utilities if any.

RF ID System should have Alert alarm if any peripheral connected to the reader fails/ removed/damaged.

Each RFID Station should be provided with suitable UPS with Battery Back-up for not less than 10 hours.

Each RFID Station Should support at least two antennae at each location.

RFID system should be CE approved.

RFID access-control system should have indicator lights and audio-visual alarm facility.

**d. RF Antenna**

No polarization constraints. Capable of reading tags in any orientation.

Read range of 0-8 meters.

Built in Protection against lightning should be provided on antenna post of the RF ID.

Rugged design to operate in dusty & metallic environment.

**e. RFID TAG DESIGN & REPORTING SOFTWARE:**

Should work with Windows 2008 R2 server/ XP/ Vista/ Win 7 for user PC

SQL Server 2008 R2 based

Up-date all selected records, delete all selected record for single table projects.

Tag re-print / re-write privilege report design.

Customized reports for text and / or images, set-up variable an static text fields

Data written in the RFID tag memory should be encrypted so that no external reader can read/write data on it.

System should have Operation modes like Read/Write/Verify/ Print- RFID data tag and contents should be capable of being verified.

System should alert the user if the tag is defective when activating a new tag.

The Vehicle information so captured, should be in-corporated with the weighing software for vehicle details, etc.,

**f. INETRFACES:**

Wireless connectivity to central server (for future application) using 2.4 or 5.8 GHz band (de-licensed by WPC) or any WPC de-licensed Radio Frequency technology.

Mode of operation: Point to Point, Point to Multi point, Bridging, Routing, Ethernet to WLAN Bridge, AP client with Routing function, dynamic WDS, L2 mesh, High performance learning bridge with STP. 3G Connectivity (optional, may required in future)

Configuration: 120 deg Sectorial. Standard: IEEE 802.11 a/b/g (Wireless LAN), 802.11n MIMO, IEEE 802.3 (CSMA/CD Ethernet), optional 3G. Certifications or approvals: Radio module CE & FCC Part15, Section 15,247.

RS-232
TCP/IP
USB 2.0
GPIO (General Purpose Input / Output)

g. MEMORY
DRAM Memory: 64 MB Min.
Flash Memory: 32 MB Min.

h. POWER REQUIREMENTS:
AC input source 150-264 V AC (48-52 Hz) 1 phase PFC.
FCC Report of Backhaul Unit to be provided
ETA (Equipment Type Approval) Certification from WPC India shall be provided

i. Lightning Arrestor:
Heavy Duty, type-1/Class B protection device with Surge Arrestor to protect
Electronic & Electrical equipments used in Road Weigh Bridges of Coal Mines (a)
Input Voltage: Max 230 V AC(L-N) (b) Frequency: 47-63 Hz (c) Automatic High &
Low Voltage Cutoff (d) Degree of Protection: IP20 (e) Test Standard: IEC: 61643-1
(f) with installation & commissioning

20. Software for Road Weighbridges: Road Weighbridges are to be used for
weighment of trucks, empty (tare weight) as well as filled with coal (gross weight) for
supply to consumers (outside parties) and also for transportation of coal for internal
use.

The software to be developed shall have the following features:
Software for in-motion weighbridge shall be designed after consultation with the user.
Weighing shall be fully automatic (Un-manned) for Internal Weighing and if required
Remote Printing (100 Mtr apart).
Weighing software shall in-corporate the RFID information (Vehicle details, etc.,) for
true fully automatic (Un-manned) for all type of Weighing.
During Weighment second truck will be allowed only after the first truck weighed and
left the weighing platform.
i3Ms software is to be used for road sale operation.
Remote Printing facility (if required) with a distance of 100 Mtr.
At the time of installing the software shall accept the following data:
(a) Name of the Company in full, 30 characters long
(b) Name of the Area in full, 30 characters long
(c) Name of the weighbridge in full, 30 characters long.
Once the software is installed in a particular Road Weighbridge, no provision shall be
given to alter the data entered above.
All date and time values are to be taken from the system date and time
The software shall print Gate Pass/Challan, Shift-wise Report, Daily Report,
Periodical Report and
Monthly Report of the weighment done in the weighbridge as per the formats for DO
wise, Date wise, Party wise, etc.,
Tare Weighing have the provision to record, Each Truck or Daily Once or Weekly
Once or Monthly once and the date of Tare Weighment with expiry date should be
displayed in the Display during weighment.
The Reports should have the indication of Speed in KM/H of the moving Truck over
the WB.
Creation of master information: Details of the D.O. data to be captured on PC before
weigment is given below:
For Consumers(Outside parties):
Creation of master:-
a) Delivery order no. and date, 15 characters long and British date (b) Name
of consumer as per D.O.35 characters long © Address of consumer as per D.O.35
characters long (d) Consumer code as per D.O.4 characters long (e) Grade as per
D.O.3 characters long (f) Size as per D.O.5 characters long (g) Source unit as per
D.O.15 characters long (h) Released Qty as per D.O.5 integers +2 decimals (i)
Validity period as per D.O.British date format
**Updation of existing D.O.data:**

a) Revalidation Ref.No., if any, 5 characters long  
b) Revalidation period, British date format  
c) Adjustment Ref.No., if any, 5 characters long  
d) Adjustment qty, 2 integers + 2 decimals  

**For internal transportation:**

**Creation and updation of master:**

- The truck number, 10 characters long  
- Tare weight 2 Integers + 2 Decimals (in tonne)  
- Date of updation, British date format  
- Transporter's name, 35 characters long  

**Provision for updating the tare weights** along with the date of updation shall be provided.

**The tare weights** (from the truck master in case of internal use), gross weight of each truck with truck number, grade & size lifted shall be recorded in the PC along with date & time of weighment.

**Software** shall ensure that both tare weights and gross weights recorded are fully protected/guarded against any updation later.

**In case of supply to outside parties the software** must check whether balance qty (minimum 8 tonnes) is due for lifting against the D.O. at the time of weighment of tare itself.

**Software** shall also check the validity of the D.O. and if the validity period has expired then the tare weight shall not be accepted/recorded.

Provision in the Software to check each Gross for Nett is not above the prescribed limit (now it is 16 MT) in tandem with Tare of the particular Truck.

Again if the qty being lifted adds up to more than the **released qty in the D.O.**, then the **Gate Pass** shall not be printed unless the released qty is adjusted by competent authority.

**Provision in Software** shall be incorporated to print a warning in the gate pass if the balance qty against the D.O. is less than the prescribed level. (Prescribed level should be entered during the master creation)

**Provision in Software** shall be given to adjust the balance qty against the consumer in case of increase in prices of coal, sales tax etc.

Provision in Software must be made to print the Weighment Slip/Gate Pass in case of DO Weighing.

**Provision in Software** must be made to reprint the gate pass in case of damage of gate pass etc.

Provision in software must be made to print two formats of the gate pass –

1. for Road sale  
2. for Internal sale. Samples of gate pass with relevant headers are given below:

Any changes to integrate the weighbridges with the ERP systems in to be done by the weighbridge vendor free of cost.

Any modification in the software for weighbridges required time to time is to be done by the weighbridge vendor without any additional cost to MCL.

IP camera to be provided in weighbridges by the weighbridge vendor for capturing snapshot and the same should be stored in the local PC and to be transmitted to the Central VTS/Coalnet server along with weighment data through GPRS.

Weighbridge data along with truck no. work order details etc. to be uploaded to the Central VTS/Coalnet Server on real-time basis through GPRS. Necessary software and GPRS connectivity to be provided by the weighbridge vendor.

**The Headers: (for Road Sale & Internal Sale/Transport respectively)**

<table>
<thead>
<tr>
<th>Name of the Project</th>
<th>Name of the Area, MCL</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHBRIDGE NO. -</td>
<td>WEIGHMENT SLIP</td>
</tr>
<tr>
<td>Gate pass No.-</td>
<td>Mining Permit No.-</td>
</tr>
<tr>
<td>Date-</td>
<td></td>
</tr>
<tr>
<td>Name of the Project</td>
<td>Name of the Area, MCL</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>WEIGHTBRIDGE NO.</td>
<td>WEIGHMENT SLIP</td>
</tr>
<tr>
<td>Serial No.</td>
<td>Transit Pass No.</td>
</tr>
<tr>
<td>Product Code-</td>
<td>Product Name-</td>
</tr>
<tr>
<td>To Code -</td>
<td>To Name-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Serial No.</th>
<th>Transit Pass No.</th>
<th>Date:</th>
<th>Customer Name -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code-</td>
<td>Product Name-</td>
<td>From Code-</td>
<td>From Name-</td>
</tr>
<tr>
<td>To Code -</td>
<td>To Name-</td>
<td>Transporter Code -</td>
<td>Transporter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vehicle No.:</th>
<th>Material:</th>
<th>DO:</th>
<th>Lifted:</th>
<th>Party name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>From:</td>
<td>To:</td>
<td>Date:</td>
<td>Time:</td>
<td>Net weight:</td>
</tr>
<tr>
<td>Gross Weight:</td>
<td>Tare Weight:</td>
<td>Date:</td>
<td>Time:</td>
<td>Shift Avg:</td>
</tr>
<tr>
<td>Progressive quantity:</td>
<td>Balance quantity:</td>
<td>Date:</td>
<td>Time:</td>
<td>Speed of vehicle: Remarks:</td>
</tr>
<tr>
<td>Daily Avg:</td>
<td></td>
<td>Date:</td>
<td>Time:</td>
<td>Remarks:</td>
</tr>
<tr>
<td>Note : All weight are in tonnes.</td>
<td></td>
<td></td>
<td></td>
<td>Signature of W/B Clerk</td>
</tr>
</tbody>
</table>

Provision in Software must be made to give a daily and monthly road dispatch report as per the format mentioned in preceding three rows.

Provision in Software must be made to copy the weighment details by a master password holder on to a floppy for billing purposes in the area or for creating backups.

Only executable files of the software shall be loaded in the weighbridge PC. No other software shall be provided in the weighbridge PC.

Provision in Software must be made to copy the weighment details by a master password holder on to disk media (CD or DVD) for billing purposes in the area or for creating backups.

In case, any deviation in the software programming will be considered at the time of commissioning.

Source code shall be provided to MCL.

Provision in the software to interface with our existing COALNET System Server at MCL HQ.

21. Stamping: The weighbridge shall be duly verified and stamped by "Legal Metrology Deptt", Govt. of Odisha before finally handing over the weighbridge to MCL authorities.

22. Service Back-up: The manufacturer/supplier shall have the proper service back up system so that system could be attended in case of any breakdown and rectified within twenty four hours during guarantee period.