NOTICE FOR PRE NIT MEET

A Pre NIT (Notice Inviting Tender) meeting is scheduled to be held on **29-May-15** at **11:00 AM** in the Office of the General Manager (MM) MCL, 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>Supply of 09 mtrs. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre <strong>with LED lights</strong> equivalent to 06 nos. 400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning.</td>
<td>02</td>
</tr>
<tr>
<td>02</td>
<td>Supply of 09 mtrs. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre <strong>with LED lights</strong> equivalent to 06 nos. 2X400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning.</td>
<td>04</td>
</tr>
<tr>
<td>03</td>
<td>Supply of 11 mtrs. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre <strong>with LED lights</strong> equivalent to 08 nos. 2X400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning.</td>
<td>04</td>
</tr>
<tr>
<td>04</td>
<td>16 mtrs long ground mounted high mast lighting Tower <strong>with LED lights</strong> equivalent to 08 nos , 1X400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect.</td>
<td>15</td>
</tr>
<tr>
<td>05</td>
<td>16 mtrs long ground mounted high mast lighting Tower <strong>with LED lights</strong> equivalent to 08 nos , 2X400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect.</td>
<td>10</td>
</tr>
<tr>
<td>06</td>
<td>20 mtrs long ground mounted high mast lighting Tower <strong>with LED lights</strong> equivalent to 08 nos , 2X400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect.</td>
<td>15</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 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, 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, cgm-mm.mcl@nic.in

The notice along with draft NIT for pre NIT meet is available at: [www.mcl.gov.in](http://www.mcl.gov.in) and [www.tenders.gov.in](http://www.tenders.gov.in)
**e-TENDER NOTICE**
(for Procurement of Consumables & others : DOMESTIC TENDER)

1. Tenders are invited on-line on the website https://mcltenders.gov.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>Application fee (In Rs.)</th>
<th>Delivery Period (In Days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 09 mtrs. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre with LED lights equivalent to 06 nos. 400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning. Qty. 02 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. 09 mtrs. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre with LED lights equivalent to 6 nos. 2X400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning. Qty. 04 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. 11 mtrs. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre with LED lights equivalent to 8 nos. 2X400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning. Qty. 04 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 16 mtrs long ground mounted high mast lighting Tower with LED lights equivalent to 8 nos , 1x400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect. Qty. 15 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. 16 mtrs long ground mounted high mast lighting Tower with LED lights equivalent to 8 nos , 2x400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect. Qty. 10 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. 20 mtrs long ground mounted high mast lighting Tower with LED lights equivalent to 8 nos , 2x400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect. Qty. 15 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(The above tendered item(s) is (are) eligible/ net-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></td>
</tr>
<tr>
<td>h.</td>
<td>Document download start date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>Document download end date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td>Bid Submission start date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e.</td>
<td>Bid submission end date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f.</td>
<td>Start date for seeking Clarification on-line</td>
<td></td>
<td></td>
</tr>
<tr>
<td>g.</td>
<td>Last date for seeking Clarification on-line</td>
<td></td>
<td></td>
</tr>
<tr>
<td>h.</td>
<td>Techno-Commercial Bid Opening date*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 challian 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 on-line

<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 Self Certified and 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 Self Certified and 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. (self authenticated and 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 Part I tender [i.e. Techno-Commercial 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 7 (seven) days before the end date of bid submission. The replies to clarifications sought by bidders shall be given at least 2 (two) 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 proveness:
   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. 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": Lighting Tower of similar type with longer height and higher capacity luminaries will be considered as items of higher specification).**
ii. The tendered items to be offered by the bidder should be ISI marked

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.

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 provenness criteria mentioned at Sl. No. (i) to (vi) above and possessing the corresponding supporting documents as given in the NIT at Clause - 25.

C. VAT/Sales Tax Registration: The bidder should posses 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.

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.gov.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 (as given in the NIT at Annexure - B) will be downloaded by the bidder and will be printed on Bidder’s letter head and the scanned copy of the same will be uploaded during bid submission in cover-l [i.e. Techno-Commercial Bid]. 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.
The Letter of bid will be digitally signed by DSC holder submitting bid online and it does not require any physical signature. However, if the Letter of Bid (LOB) bears the physical signature in addition to the digital signature of DSC holder, it will be accepted without questioning the identity of person signing the Letter of Bid.

d. 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 will be rejected.

However inclusion of any additional redundant information by the Bidder in the submitted Letter of Bid (LOB), which does not contradict the content and spirit of original format of LOB uploaded by department will not be a cause of rejection of his/her bid.

e. **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.

f. **Price bid:** The Price Bid/BOQ comprises 02 sheets (i.e. BOQ Sheet and Sheet1) in Excel Format one of these is for Bidder & the other sheet is the calculation sheet.

Sheet 1 is to be filled up as per the requirement i.e. in terms of percentage or in absolute value.

The calculation sheet (BOQ Sheet) shall remain protected and bidder cannot enter any data in this sheet. However, the bidder can view this sheet to check their final figure of their bid.

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 (if applicable), Education Cess 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 deducted 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 “Sheet for Domestic Bidders” [Under Price Bid / BOQ]**

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 “Sheet for Domestic Bidders” [Under Price Bid / BOQ]. In case they become Successful Bidder, they will have to submit Excise exemption document.

**CENVAT CREDIT is available on countervailing duty, on special additional duty of customs and educational & higher educational cess 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 submit 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. Successful Bidder / Bidders are required to upload the documents enlisted in Clause 25. C. 1 to the above effect.

As entry tax is applicable for all Domestic bidders @ 2 % (rate presently applicable), this component will be taken into consideration by the system for calculating the landed price of all bidders, the bidders from the state of Odisha 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-bids of the bidders will have no condition. The Price Bid which is not submitted as per instruction given above will be rejected.

10. All bids are to be submitted on-line on the website https://mcltenders.gov.in. No bid shall be accepted off-line.

11. Modification and Withdrawal of Bid:

Modification of the submitted bid shall be allowed on-line only before the deadline of submission of tender and the bidder may modify and resubmit the bid on-line as many times as he may wish.

Bidders may withdraw their bids online within the end date of bid submission and their EMD will be refunded automatically after the opening of Part I tender [i.e. Techno-Commercial Bid]. However, if the bidder wants to withdraw his bid he will not be able to resubmit the bid in that particular tender.

For withdrawal of bid after the end date of bid submission, the bidder will have to make a request in writing to the Tender Inviting Authority. Withdrawal of bid may be allowed till issue of supply order with the following provision of penal action:

a. If the request of withdrawal is received before online notification for opening of price bid, the EMD will be forfeited and bidder will be debarred for 6 months from participating in tenders in MCL. The Price-bid of remaining bidders will be opened and the tender process shall go on.

b. If the request of withdrawal is received after online notification for opening of price bid, the EMD will be forfeited and the bidder will be debarred for 1 year from participating in tenders in MCL. The Price bid of all eligible bidders including this bidder will be opened and action will follow as under:

i). If the bidder withdrawing his bid is other than L1, the tender process shall go on.

ii). If the bidder withdrawing his bid is L-1, then re-tender will be done for the items in which this bidder was L1.

Note:

i). In case of clause (a) & (b) above, a letter will be issued to the bidder by Tender Inviting Authority with the approval of Tender Accepting Authority (in case Board is Tender Accepting Authority then with the approval of CMD), stating that the EMD of bidder is forfeited and this Bidder is debarred for six months (in case of Clause-a) OR one year (in case of Clause-b) from participating in tenders in MCL. This letter will be circulated to all Areas and MCL-HQ. and the updated list will be maintained by all Tender Inviting Authority/Evaluators.

ii). Penal action against clause (a) & (b) above will be enforced from the date of issue of such order.

12. Bid Validity: The validity period of the tenders shall be minimum 120 (one hundred twenty) 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>Qty (Nos.)</th>
<th>Destination Point (Place of delivery of materials)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>02</td>
<td>Basundhara Garjanbahal Area</td>
</tr>
<tr>
<td>02</td>
<td>04</td>
<td>Lakhanpur Area</td>
</tr>
<tr>
<td>03</td>
<td>04</td>
<td>Kaniha/ Lingarai Area</td>
</tr>
<tr>
<td>04</td>
<td>15</td>
<td>IB-Valley Area</td>
</tr>
<tr>
<td>05</td>
<td>10</td>
<td>Bharatpur Area</td>
</tr>
<tr>
<td>06</td>
<td>05</td>
<td>Central Workshop , Ib Valley</td>
</tr>
<tr>
<td>07</td>
<td>06</td>
<td>IB-Valley Area</td>
</tr>
<tr>
<td>08</td>
<td>04</td>
<td>Lakhanpur Area</td>
</tr>
</tbody>
</table>
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. The presently applicable rate is @ 2%. Bidders from with in the state of Odisha 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, Counter Vailing Duty [CVD], Special Additional Duty [SAD], Education Cess, etc.) 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 the lowest landed rate quoted, the amount of Excise Duty and Service Tax including education cess 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 “Sheet1”. This is to be followed strictly.

Countervailing duty (CVD) & Special Additional Duty (SAD): (Indian selling agent, dealer, distributor 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 and Special Additional duty (SAD) 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 upto 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 @ 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. The rate presently applicable is @ 2%. Bidders from with in the state of Odisha 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 total Delivery period of Lighting Towers will be 06 months from the date of receipt of the order.
Installation and commissioning of ground mounted lighting towers within two months from the date of acceptance of the lighting towers at consignee stores or handing over of site for installation whichever is later.

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 / Warrantee 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 issue/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. The Techno-commercial bid will be decrypted and opened on-line, on the pre-scheduled date and time by the Bid Openers with their Digital Signature Certificate (DSC). The participating bidders may view the opening of Techno-commercial bids remotely on-line. Thereafter, the Techno-commercial bid shall be evaluated by the system on-line based on the information furnished by bidders on-line in accordance with Clause No.7 [Eligibility Criteria], Clause No.8 [Technical Specification Parameters] and Clause no. 9 [Submission of Bid]. This on-line evaluation will be validated by Tender Committee of MCL.

23. After evaluation of Techno-commercial bid, all the bidders will get the information regarding status of their eligibility along with the date of Price-bid opening on their personalized dash board and also by system generated e-mail. It will be the bidder's responsibility to check the status of their Bid on-line at least once daily, after the opening of Techno-commercial bid till opening of the Price-bid. No separate communication will be made to the bidder in this regard.

24. The Price-bid of the successful bidders (qualified in Techno-commercial bid) will be decrypted and opened on-line, on the pre-scheduled date and time by the Bid Openers with their Digital Signature Certificate (DSC). The participating bidders may view the opening of Price-bids remotely on-line. The bidders will get the information regarding the status of their financial bid and ranking of bidders on website.

25. After opening of Price-bid, the list of documents required to be submitted by L-1 bidder as enlisted in the NIT will be specified on-line by Evaluator indicating the start date and end date giving 7 days (7x24 hours) time for on-line submission by bidder. The L-1 bidder will get this information on their personalized dash board under "Upload confirmatory document" link. Additionally, information shall also be sent by system generated e-mail and SMS, but it will be the bidder's responsibility to check the updated status/information on their personalized dash board at least once daily after opening of Price-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 self certified and attested by notary public of all the specified documents in support of the information/ declarations furnished by them on-line within the specified period of 7 days. However, the affidavit may be scanned and uploaded as it is, without any additional self certification and attestation by Notary public.
### 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>Sl No.</th>
<th>Category of Bidder</th>
<th>Scanned copy of documents(Self certified and attested by Notary public) to be uploaded by L1 bidder in support of Basic Eligibility Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Indian Manufacturers</td>
<td>Any one of the following documents (self authenticated and attested by Public Notary):</td>
</tr>
<tr>
<td></td>
<td>a. Factory license/Manufacturing license</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. NSIC registration certificate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>c. DGS&amp;D registration certificate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d. SSI/DIC registration certificate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>e. Valid ISO Certificate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>f. Valid BIS license/certificate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>g. Valid DGMS approval</td>
<td></td>
</tr>
<tr>
<td></td>
<td>h. Micro / Small Enterprises [MSE] Registration certificate issued by District</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industries Centres or Khadi and Village Industries Commission or Khadi and Village</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industries Board or Coir Board or National Small Industries Corporation or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Directorate of handicrafts and Handloom or any other body</td>
<td></td>
</tr>
<tr>
<td></td>
<td>specified by Ministry of Micro, Small and Medium Enterprises</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>Indian selling agents/dealers/distributors authorized by Indian manufacturer</td>
<td>i. Specific authorization from their principal manufacturer to quote against this tender (self authenticated and attested by Notary Public)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Any one of the following documents of the principal manufacturer (self authenticated and attested by Public Notary):</td>
</tr>
<tr>
<td></td>
<td>i. Manufacturing License/Certificate</td>
<td>a. Factory license/Manufacturing license</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. NSIC registration certificate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. DGS&amp;D registration certificate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d. SSI/DIC registration certificate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>e. Valid ISO Certificate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>f. Valid BIS license/certificate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>g. Valid DGMS approval</td>
</tr>
<tr>
<td></td>
<td></td>
<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>
</tr>
<tr>
<td>c</td>
<td>Indian selling agents/dealers/distributors authorized by Foreign manufacturer</td>
<td>i. Specific authorization from their principal manufacturer to quote against this tender (self authenticated and attested by Notary Public)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>i. Any one of the following documents of the principal manufacturer (self authenticated and attested by Public Notary):</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a. Manufacturing License/Certificate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. Valid ISO Certificate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. Any statutory document confirming the “Manufacturer” status of the Principal Manufacturer</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 [i.e. Techno-Commercial Bid].

### 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(Self certified and attested by Notary public) to be uploaded by L1 bidder in support of Provenness Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>i</td>
<td>The tendered item or items of higher specification must have been supplied in the</td>
<td>Both the following documents (a) and (b) or (c) (i) and (ii)</td>
</tr>
<tr>
<td></td>
<td>past to any Government/Public Sector Undertakings (Indigenous or Global) or any</td>
<td>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. (self authenticated and attested by Public Notary)</td>
</tr>
<tr>
<td></td>
<td>Private Industry (Indigenous or Global), against two different supply orders</td>
<td></td>
</tr>
<tr>
<td></td>
<td>orders(Firm) consisting not less than 33%(cumulative) of tendered quantity</td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td>AND</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>-----</td>
<td></td>
</tr>
<tr>
<td>Either, having satisfactory performance report from the user for a period of not less than 06 (six) months</td>
<td>b. Any of the following:</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>b. (i) Satisfactory performance report from the user for a period of not less than 06 months (self authenticated and attested by Public Notary);</td>
<td></td>
</tr>
<tr>
<td>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. No warranty claim as regards to such supplies is/are pending as on the last date of submission of Bid”</td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>The tendered items to be offered by the bidder should be ISI marked</td>
<td>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. No warranty claim as regards to such supplies is/are pending as on the last date of submission of Bid”</td>
<td></td>
</tr>
<tr>
<td>ii</td>
<td>BIS Marking License/Certificate of the manufacturer for the quoted items (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
<tr>
<td>iii</td>
<td>Valid Rate Contract as issued by CIL/any other subsidiary of CIL for the quoted items (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
<tr>
<td>iv</td>
<td>Valid Rate Contract as issued by DGS&amp;D for the quoted items (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
<tr>
<td>v</td>
<td>Valid DGMS Approval for the quoted items (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
<tr>
<td>vi</td>
<td>Proven ancillary Certificate issued by MCL for the quoted items (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>SI No.</th>
<th>Other Eligibility Criteria</th>
<th>Scanned copy of documents (Self certified and attested by Notary public) to be uploaded by L1 bidder in support of Other Eligibility Criteria</th>
<th>Any one of the following documents (self authenticated and attested by Notary Public)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>All Bidders including first stage &amp; 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. 9(f) of NIT)</td>
<td>Any one of the following documents (self authenticated and attested by Notary Public):</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) Excise Registration Certificate.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(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.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>VAT/Sales Tax Registration (Ref. Clause No. 7(C) of NIT)</td>
<td>VAT/Sales Tax Registration Certificate issued by Sales Tax Department of any Indian State/Union Territory (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Permanent Account Number (Ref. Clause No. 7(D) of NIT)</td>
<td>PAN Card issued by Income Tax department, Govt. of India (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Digital Signature Certificate (DSC) (Ref. Clause No. 9(a) of NIT)</td>
<td>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 is required. (self authenticated and attested by Public Notary)</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>An Affidavit on a non-judicial stamp paper of minimum value of Rs.10 regarding genuineness of the information furnished by the bidder on-line and authenticity of the documents being produced by him/them before Tender Committee in support of his eligibility, as per the format given in the NIT at Annexure-C</td>
<td>An Affidavit on a non-judicial stamp paper of minimum value of Rs.10 regarding genuineness of the information furnished by the bidder on-line and authenticity of the documents being produced by him/them before Tender Committee in support of his eligibility, as per the format given in the NIT at Annexure-C</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Any other document to support the qualification information as submitted by the bidder on-line (self authenticated and attested by Public Notary)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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(Self certified and attested by Notary public) to be uploaded by L1 bidder in support of Technical Specification Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td></td>
<td>Type test certificate:</td>
</tr>
<tr>
<td>02</td>
<td></td>
<td>A. Tenderer shall also submit Type Test Certificates from the Government Test House/Institution for Lighting Mast Tower for individual offered height of Tower.</td>
</tr>
<tr>
<td>03</td>
<td></td>
<td>B. Tenderer shall also submit Type Test Certificates from the Government Test House/Institution for power operated winch to be fitted with individual offered height of tower.</td>
</tr>
<tr>
<td>04</td>
<td></td>
<td>C. Manufacturer's test certificates for items that require conformity to IS</td>
</tr>
<tr>
<td>05</td>
<td>Ref. TPS uploaded along with this NIT</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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.

In case the Tender Committee finds that there is some deficiency in uploaded documents or documents have not been uploaded by L-1 bidder within the stipulated period 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 giving 7 days (7 x 24 hours) time for online re-submission by L-1 bidder. The L-1 bidder will get this information on their personalized dash board under “Upload Confirmatory Document” link. Additionally, information shall also be sent by system generated e-mail and SMS, but it will be the bidder’s responsibility to check the updated status/information on their personalized dash board at least once daily after opening of Price-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 self certified and attested by notary public of those specified documents within the specified period of 7 days.

No additional time will be allowed to the bidder for on-line submission of documents.

The tender will be evaluated only 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.

a. In case the L-1 bidder submits requisite documents online as per NIT for all his quoted items (for which he was L-1) then the bidder will be considered eligible for all the quoted items (for which he was L-1).

b. In case the L-1 bidder submits requisite documents online as per NIT for some of his quoted items (for which he was L-1) but for rest of his quoted items (for which bidder was L-1), either fails to submit requisite documents or any of the information/declaration furnished by L-1 bidder online is found to be wrong by Tender Committee during evaluation of scanned documents uploaded by bidder, which changes the eligibility status of the bidder (for the first time), then the bidder will be considered eligible for those items for which the valid requisite documents have been submitted. For the balance items, re-tender will be done (with the same or different quantity, as per the instant requirement) in which the offer from this bidder will not be accepted and 50% of EMD deposited by this L-1 bidder or Rs.1.00 lakh, whichever is lower will be forfeited.

The Penal action of debarring the bidder in Retender will be restricted to first Retender only. If the first Retender is not finalized and there is second Retender, then this penal action will not be applicable.

c. In case the L-1 bidder fails to submit requisite documents online as per NIT for all of his quoted items (for which he was L-1) or if any of the information/declaration furnished by L-1 bidder online is found to be wrong by
Tender Committee during evaluation of scanned documents uploaded by bidder, which changes the eligibility status of the bidder for all of the items quoted by this bidder for which the Bidder was L-1 (for the first time), then 100% of EMD deposited by this L-1 bidder or Rs. 1.00 lakh, whichever is lower will be forfeited and re-tender (with the same or different quantity, as per the instant requirement) will be done for the items in which this bidder was L1. In this re-tender, offer from this bidder will not be accepted.

The Penal action of debarring the bidder in Retender will be restricted to first Retender only. If the first Retender is not finalized and there is second Retender, then this penal action will not be applicable.

d. If the L-1 bidder fails to submit the requisite documents online as per NIT for any of his quoted items (for which he was L-1) in two tenders, floated by the same tender inviting authority, within a span of one year (to be counted with respect to date of e-publication of NIT), or if any of the information/declaration furnished by L-1 bidder online is found to be wrong by Tender Committee during evaluation of scanned documents uploaded by bidder, which changes the eligibility status of the bidder, for any of his quoted items (for which the bidder was L-1) in two tenders, floated by the same tender inviting authority, within a span of one year (to be counted with respect to date of e-publication of NIT), then 100% of EMD deposited by this L-1 bidder will be forfeited and this bidder will be debarred for one year from participating in tenders in MCL and re-tender will be done for the items in which this bidder was L1.

e. It is responsibility of L-1 Bidder to upload legible/clearly readable scanned copy of all the required documents as mentioned above.

Note:

i. In case of clause (b) & (c) above, a letter will be issued to the bidder by Tender Inviting Authority with the approval of Tender Accepting Authority (in case Board is Tender Accepting Authority then with the approval of CMD), stating that the bidder is not allowed to participate in the next tender and if such act is repeated next time within a span of one year, this bidder will be debarred for one year from participating in tenders in MCL. The amount of EMD which is forfeited due to failure on the part of bidder to submit requisite documents within stipulated time is also to be indicated in this letter.

ii. In case of clause (d) above, a letter will be issued to the bidder by Tender Inviting Authority with the approval of Tender Accepting Authority (in case Board is Tender Accepting Authority then with the approval of CMD), stating that the EMD of bidder is forfeited and this Bidder is debarred for one year from participating in tenders in MCL. This letter will be circulated to all Areas and MCL-HQ and the updated list will be maintained by all Tender Inviting Authority/ Evaluators.

iii. Penal action against clause (b), (c) & (d) above will be enforced from the date of issue of such order. Such orders must be issued before inviting the tenderer.

26. 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.mcl.gov.in

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

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

29. **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 UGS&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.

30. **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.

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.

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.

31. **Inspection Clause**: Pre-despatch inspection at any stage before dispatch of materials at supplier’s premises by MCL representative or by a third party to be deputed by MCL will be carried out. Inspection fee to the third party will initially be paid by the supplier and will be reimbursed along with the bill against documentary evidence. In case the materials are rejected on first inspection, all charges, boarding, lodging, TA, inspection fee etc. for subsequent inspection shall be borne by the supplier.
Final inspection of materials shall be carried out at the consignee's end by authorized representative of GM (E&M), MCL 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.

32 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 shall be made within 21 days of successful commissioning. However, the payment of Excise Duty shall be made against production of documentary evidence in support of payment actually made to the concerned authorities.

Payment for Installation & Commissioning

Payment of 100% Installation & Commissioning charges along with service tax will be paid after receipt of Installation & Commissioning Report from S.O. (E&M) of respective Areas.

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 shall be made within 21 days of successful commissioning.

Payment for Installation & Commissioning

Payment of 100% Installation & Commissioning charges along with service tax will be paid after receipt of Installation & Commissioning Report from S.O. (E&M) of respective Areas.

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.

33. 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.

34. **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.

35. **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."

36. **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.

37. **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.

38. **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.

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

40. 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.

41. The Company reserves its right to allow Public Enterprises purchase preference facility as admissible under prevailing policy.
42. 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.

43. 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.

44. ** 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.

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 download 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>
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</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.

Encl:
- Annexure “A” General Terms and Conditions of Supply of Stores
- Annexure “B” Format of Letter of Bid
- Annexure “C” Proforma for Affidavit to be submitted by the L-1 bidder
- Annexure “D” Format of bank guarantee for Security Guarantee
- Annexure “E” Format of bank guarantee for Performance Guarantee
- Annexure “F” Integrity Pact
- Annexure “G” Mandate form for Electronic Fund Transfer/Internet Banking payment
- Annexure “H” Issue & Utilization Procedure of e-Way Bill

[Signature]

General Manager (MM / HOD)
GENERAL TERMS AND CONDITIONS OF SUPPLY OF STORES

DEFINITION

1. In the interpretation of the Contract and the general and special conditions governing it, unless the context otherwise requires:
   i. Contract means the invitation to tender, instructions to tenderers, acceptance of tender, particulars and the general and special conditions specified in the acceptance of tender and includes a repeat order which has been accepted and acted upon by the supplier.
   ii. The term "SUPPLIER" shall mean the person, firm or company with whom the contract is placed and shall be deemed to include the supplier in successors (approved by the Purchaser) representatives, heirs, executors, administrators and permitted assignee as the case may be.
   iii. "CONTRACT PRICE" shall mean the sum accepted or the sum calculated in accordance with the price and/or terms accepted by or on behalf of the purchaser.
   iv. The CHAIRMAN-CUM MANAGING DIRECTOR means, Chairman-cum-Managing Director of Mahanadi Coalfields Limited.
   v. The term DRAWING shall mean the drawing, the plans specified in or annexed in the schedule of specification.
   vi. The term PURCHASE EXECUTIVE shall mean the purchaser or purchaser named in the schedule to tender, his or their successor or assignees.
   vii. The term INSPECTOR shall mean any person nominated by or on behalf of the purchaser to inspect supplier's Stores or works under the contract or his duly authorized agent.
   viii. The term "PROGRESS OFFICER" shall mean any person nominated by or on behalf of the purchaser to visit supplier's works to ascertain the position of deliveries of stores purchased.
   ix. The term "MATERIALS" shall mean anything used in the manufacture or fabrication of the stores.
   x. The term "PARTICULAR" shall mean the following:
      a. Specifications
      b. Drawing
      c. Sealed pattern denoting a pattern sealed and signed by the Inspector
      d. Certified or sealed sample denoting a copy of the sealed pattern or sample sealed by the purchaser for guidance of the Inspector.
      e. Trade pattern denoting a standard of the ISI or other standardizing authority or Coal India Ltd. and/or any of its Subsidiary Companies or a general standard of the industry and obtainable in the open market.
      f. Proprietary make denoting the product of an individual manufacturer.
         Any other details governing the construction manufacture and or supply as existing in the contracts.
   xi. "STORES" means the goods specified in the supply order or schedule which the contractor has agreed to supply under contract.
   xii. The term "TEST" shall mean such test or tests as prescribed by the specification or considered necessary by the Inspector or any agency acting under direction of the Inspector.
   xiii. The term "SITE" shall mean the place or places named in the "SUPPLY ORDER" or such other place or places at which any work has to be carried out as may be approved by the purchaser.
   xiv. Works denoting the persons shall include any company or association or body of individuals whether incorporated or not.
   xv. "WRITING" shall include any manuscript, typewritten or printed statement under or over signature or seal as the case may be.
   xvi. "UNIT" and "QUANTITY" means the unit and quantity specified in the schedule.
xvii. "SUPPLY ORDER" or "PURCHASE ORDER" means an order for supply of Stores and includes an order for performance.

2. The delivery of Stores shall be deemed to take place on delivery of the stores in accordance with the terms of the contract after approval of stores by the Inspector, to:
   a) the consignee at his premises, or
   b) where-so provided the interim consignee at his premises, or
   c) a carrier or other persons named in the contract as interim consignee for the purpose of transmission to the consignee.
   d) The consignee at the destination station in case of contracts stipulated for delivery of stores at destination station.

3. Words in the singular include the plural and vice-versa.

4. Words denoting the masculine gender shall be taken to include the feminine gender and work persons, shall include any company or association or body of individual, whether incorporated or not.

5. Terms and expression not herein defined shall have the meaning assigned to them in the Indian Sale of Goods Act. 1930 or the Indian Contract, 1872 or the General Clauses Act, 1897 and as amended in respect of all the Acts, as the case may be.

6. (a) Parties:
   The parties to the contract are the supplier and the purchaser named in the schedule or any other specifically mentioned in the contract.
   (b) Address to which communication are to be sent: For all purposes of the contract, including arbitration the tender, the address of the supplier mentioned in the tender shall be the address to which all communications addressed to the supplier shall be sent, unless the supplier has notified a change by a separate letter containing no other communication and sent by registered post acknowledgement due to the head of the office placing the supply order. The supplier shall be solely responsible for the consequence of an omission to notify a change of address in the manner aforesaid.
   (c) Any communication or notice on behalf of the purchaser in relation to the contract may be issued to the supplier by Purchase Executive and all such communications and notices may be served on the supplier either by registered post or under certificate of posting or by ordinary post or by hand delivery at the option of such executive.

7. (i) Samples of each item, if considered necessary, should be submitted simultaneously by the contractor for inspection by inspector(s) unless the articles under tender are of considerable bulk, in which case separate arrangement will be made for inspection of the articles offered while considering the question.
   (ii) All samples required for inspection or test shall be supplied by the successful tenderer free of cost.
   (iii) All samples must be clearly labeled with the tenderer's name, this offer enquiry number and the last date of opening of tender.

8. (a) Subletting and Assignment:
   The supplier shall not save with the previous consent in writing of the purchaser, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided nevertheless that any such consent shall not relieve the supplier from any obligation, duty or responsibility under the contract.
   (b) Change in a Firm
   (l) Where the supplier is a partnership firm, a new partner shall not be introduced in the firm except with the previous consent in writing of the purchaser (which may be granted only as an exception) of a written undertaking by the new partner to perform the contract and accept all liabilities incurred by the firm under the contract prior to the date of such undertaking.
   (ii) On the death or retirement of any partner of the supplier firm before complete performance of the contract the purchaser may at his option cancel the contract in such case the supplier shall have no claim whatsoever to compensation against the purchaser.
   (iii) If the contract is not determined as provided in the sub-clause (ii) above notwithstanding the retirement of a partner from the firm, he shall continue to be liable under the contract for acts of the firm until a copy of the public notice given by him under Section 32 of the Partnership Act has been sent by him to the purchaser by registered post acknowledgement due.
9. (a) **Consequence of Breach**
Should the supplier or a partner in the supplier firm commit breach of either of the conditions (a) or (b)(i) of this sub-clause, it shall be lawful of the purchaser to cancel the contract and purchase or authorize the purchaser of the stores at the risk and cost of the supplier and in that event the provisions of Clause -20 shall as far as applicable shall apply.

(b) The decision of Mahanadi Coalfields Limited as to any matter or thing concerning or arising out of this sub-clause or any question whether the supplier or any partner of the supplier firm has committed a breach of any of the condition in this sub-clause contained shall be final and binding on the supplier.

10. **Use of raw materials secured with Government Assistance**
(a) Where any raw materials for the execution of the contract is procured with the assistance of Coal India Ltd. and/or any Subsidiaries Company of CIL by purchaser or under arrangement made or permit, license, quota certificate or release order issued by or on behalf of or under authority or by any officer empowered in that behalf by law, or is issued from government stock and where advance payments are made to the supplier to enable him to purchase such raw materials for the execution of the contract, the supplier;
   i. shall hold such material as trustee of Coal India Ltd. and/or any subsidiary companies of CIL;
   ii. shall use such material economically and solely for the purpose of the contract;
   iii. shall not dispose of the same without the previous permission in writing of the purchaser, and
   iv. shall tender due account of such material and return to the purchaser at such place as the purchaser may direct all surplus or unserviceable material that may be left after the completion of the contract or its termination for any reason whatsoever. On returning such material, the supplier shall be entitled to such price thereof as the purchaser may fix having regard to the condition of such materials.

b) Where the contract is terminated due to any default on the part of supplier, the supplier shall pay all transport charges incurred for returning any material up to such destination as may be determined by Mahanadi Coalfields Limited whose decision shall be final.

c) If the supplier commits breach of any of the conditions in this clause specified, he shall, without prejudice to any other liability, penal or otherwise, be liable to account to Coal India Ltd. or any Subsidiaries of CIL all moneys, advantages of profits accruing from or which in the usual course would have accrued to him by reasons of such breach.

d) Where the stores manufactured or fabricated by the supplier out of the materials arranged or procured by or on behalf of Mahanadi Coalfields Limited are rejected the supplier shall, without prejudice to any other right or remedy of the Government pay to the Government on demand the cost price or market value of all such materials whichever is greater.

11. The tenders shall give a warranty of satisfactory performance of the unit offered by them as per the terms appearing elsewhere in the tender documents. The supplier shall be responsible for any defects that they develop under the conditions provided for by the contract and under proper use arising from faulty materials, design or workmanship and shall remedy such defects at his own cost when called upon to do so. If it becomes necessary for the supplier to replace or renew any defective portion of the goods, such replacement or renewal should be made by the supplier without any extra cost to Mahanadi Coalfields Limited.

12. On acceptance of the tender, a formal acceptance of tender or supply order will invariably be issued. Advance intimation in writing of acceptance of the tender will be given whenever considered necessary by the said authority. In case an advance intimation has been given, the formal acceptance of tender of supply order shall follow in due course but immediate action towards execution of supply order shall be taken on receipt of the advance intimation.

13. **Inspection and Rejection**
Generally the stores shall be of the best quality and workmanship and comply with the contract or supply order in all respect.
The stores supplied shall be in accordance with specification unless any deviation is authorized and specified in the contract or supply order or any amendment thereto.

a) **Facilities for Test and Examination**
The supplier shall at his own expenses offer to the Inspector all reasonable facilities and such accommodation as may be necessary for satisfying itself, that the stores are being and/or have been
manufactured in accordance with particulars. The Inspector shall have full and free access at any time during the execution of the contract to the suppliers work for the purpose aforesaid and he may require the supplier to make arrangement for inspection of the stores or any part thereof or any material at his premises or at any other places specified by the Inspector and if the supplier has been permitted to employ the services of the sub-supplier, he shall in his contract with the sub-supplier reserve to the inspector a similar right.

b) **Cost of Test**
The supplier shall provide without any extra charge, all materials, tools, labour and assistance of every kind which the inspector may demand from him for any test, and examination other than special or independent test, which he shall require to be made on the supplier's premises and the supplier shall bear and pay all costs attendant thereon. If the supplier fails to comply with the conditions aforesaid, the Inspector shall in consultation with the purchaser, be entitled to remove for test and examination all or any of the stores manufactured by the supplier to any premises other than his (suppliers) and in all such cases, the supplier bear the cost of transport and/or carrying out such tests elsewhere. A certificate in writing of the Inspector, that the supplier has failed to provide the facilities and the means, for test and examination shall be final.

c) **Delivery of Stores for Test**
The supplier shall also provide and deliver the test free of charges, at such place other than his premises as the inspector may specify, such materials or stores as he may require.

d) **Liability for Costs of laboratory Test**
In the event of rejection of stores or any part thereof by the inspector in consequence of the sample thereof, which removed to the laboratory or other place of test being found on test to be not in conformity with the contract or in the event of the failure of the supplier for any reason to deliver the stores passed on test within the stipulated period, the supplier shall, on demand pay to the purchaser all costs incurred in the inspection and/or test cost of the test shall be assessed at the rate charged by laboratory to provide persons for similar work.

e) **Method of Testing**
The Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may think fit and proper. The supplier shall not be entitled to object on any ground whatsoever to the method of testing adopted by the Inspector.

f) **Stores Expended in Test**
Unless otherwise provided for in the contract, all stores materials expended in test will be to supplier's account.

g) **Inspector - Final authority and to certify performance**
The inspector shall have the power;

(i) Before any stores or part thereof are submitted for inspection to certify that they can not be in accordance with the contract owing to the adoption of any unsatisfactory method of manufacturer.

(ii) To reject any stores submitted as not being in accordance with the particulars.

(iii) To reject the whole of the installment tendered for inspection, if after inspection of such portion thereof as he may in his discretion think fit, he satisfied that the same is unsatisfactory and

(iv) to mark the rejection stores with a rejection mark so that they may be easily identified if resubmitted.

h) **Consequence of Rejection**
If on the stores being rejected by the inspector or consignee at the destination, the supplier fails to make satisfactory supplies within the stipulated period of delivery, the purchaser shall be at liberty to;

i) Allow the supplier to resubmit the stores in replacement of those rejected within a specified time, the supplier bearing the cost of freight, if any, on such replacement without being entitled to any extra payment on that account; or

ii) Purchase or authorize the purchaser of quantity of the stores rejected or so others of a similar description (when stores exactly complying with particulars opinion of the purchaser executive which shall be final readily available) without notice to the supplier's liability as regards the supply of any further installment due under the contract; or

iii) Cancel the contract and purchaser or authorize the purchase of the stores or others of a similar description (when stores exactly complying with particulars are not in the opinion of the purchaser which shall be final readily available) at the risk and cost of the supplier. In the event of action
being taken under sub-clause (ii) above or this sub-clause in the provision of clause 20 shall apply as far as applicable.

i) Inspector's decision as to Rejection Final
The Inspector's decision as regards the rejection shall be final and binding on the supplier.

j) Where under a contract, the price available is fixed on FOR station of despatch basis, the supplier shall if the stores are rejected at destination by the consignee, be liable in addition to other liabilities to reimburse to the purchaser the freight paid by the purchaser.

k) Notification and Result of Inspection
Unless otherwise provided in the specification or schedule, the examination of the stores will be made as soon as practicable after the same have been submitted for inspection and the result of the examination will be notified to the supplier.

l) Marking of Stores
The supplier shall, if so required, at his own expenses mark or permit the Inspector to mark all the approved stores with a recognized Government or purchaser's mark. The stores which cannot be so marked shall, if so required by the inspector, be packed in suitable package or cases which shall be sealed and marked with such mark.

m) Removal of Rejection
   i) Any Stores submitted for inspection at a place other than the premises of the supplier and rejected shall be removed by the supplier subject as hereinafter provided within 14 days of the date of receipt of intimation of such rejection. If it is proved that letter containing such intimation is addressed and posted to him at the address mentioned in the schedule, it will be deemed to have been served on the supplier at the time when such letter would in the course of ordinary post reach the supplier. It shall be competent for the Inspector to call upon the supplier to remove what he considers to be dangerous, infected or perishable stores within 48 hours of the receipt of such intimation.

   ii) Such rejected stores shall under all circumstances lie at the risk of the supplier from the moment of such rejection and if such stores are not removed by the supplier within the period aforementioned, the Inspector/Purchaser may either return the same to the supplier at his risk and cost a public tariff rate by such mode of transport as the purchaser or Inspector may select, or dispose of such stores at the supplier's risk on his account and retain in such portion of the proceeds as may be necessary to cover any expense incurred in connection with such disposal. The purchaser shall also be entitled to recover handling and storage charges for the period during which the rejected stores are not removed.

n) Inspection Notes
On the stores being found acceptable by the inspector, he shall furnish the supplier with necessary copies of inspection notes duly completed, for being attached to the supplier's bill in support thereof.

14. Packing & Transport
   (a) It shall be the responsibility of the successful tenderers to arrange the stores being sufficiently and properly packed for transport by Rail, Road or Sea as the case may be so as to being free from loss or injury on arrival at destination. The packing of the stores shall be done at the expenses of the successful tenderer.

   (b) The successful tenderer is responsible for obtaining a clear receipt from the authorities specifying the goods despatch. He will not book any consignment on a "said to contain" basis. If he does so, he does it on his own responsibility, Mahanadi Coalfields Ltd. shall pay for only such stores as are actually received by them in accordance with the contract.

   (c) All packing cases, containers, packing and other similar materials shall be supplied free by the successful tenderer and shall not be returned unless otherwise specified in the contract/supply order.

   (d) Packages must be so marked that identification is made easy. Packages will be stamped with identification marks both outside the packages as well as on the contents inside.
Packages containing articles liable to be broken by rough handling like glass or machinery made of cast iron will be marked with cautionary works like "Fragile", "Handle with care". Weight of each packages will be marked on the package.

(e) A complete list of contents in each package called the packing list will be prepared and one copy will be packed in package itself and another copy will be forwarded to the consignee, in advance.

15. **DELIVERY:** The time for and the date of delivery of the stores stipulated in the "Purchase Order" shall be deemed to be of the essence of the contract and delivery of the stores must be completed by the date specified.

16. In the event of failure to delivery or despatch the stores within the stipulated date or 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, Mahanadi Coalfields Ltd. should have the right:

a) To recover from the successful tenderer as agreed liquidated damages, a sum not less than 1/2% 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 5%. Where felt necessary the limit of 5% can be increased to 15% at the discretion of Head of the Materials Management Dept.

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 a similar description without canceling 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 agreed liquidated damages referred to in Clause (a) above.

e) To forfeit the security deposit full or in part.

f) Whenever under this contract a sum of money is recoverable from and payable by the supplier, Mahanadi Coalfields Limited 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 other contract should this sum be not sufficient to cover full amount recoverable, the successful tenderer shall pay Mahanadi Coalfields Ltd. on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.

17. 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 blockade or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then Mahanadi Coalfields Ltd. may allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by Mahanadi Coalfields Limited, the contract/supply order shall be read and understood as if it had continued from its inception in the delivery date as extended.

18. The supplier shall allow reasonable facilities and free access to his work and records to the inspector, Progress Officer or such other Officer nominated for the purpose. Inspector of Stores, i.e., supplies made by the successful tenderer against the supply order mentioned at (12) above shall be carried out by the Inspector/Consignee at the site stores or by inspecting Wing inclusive of all its branch officers) of the DGS&D, New Delhi or any other agency as may be specified in the supply order. Where necessary, inspection may be carried out at the supplier's premises.

19. Mahanadi Coalfields Limited do not bind itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender or portion of the quantity offered and the tenderer shall supply the same at the rate quoted.
20. The supplier shall at all times indemnify Mahanadi Coalfields Ltd. against all claims which may be made in respect of the supplies for infringement of any right protected by patent Registration of Design or Trade Mark, provided that in the event of any claim in respect of alleged breach of Letter Patent Registered Design or Trade Mark being made against Mahanadi Coalfields Ltd., the said authority shall notify the supplier of the same and the supplier shall be at liberty at his own expense to settle any dispute or to conduct any litigation that may arise therefrom.

21. Carrying Vessels for Imported Items
In case of machinery imported from abroad, it is preferable that shipment should be effected in Indian Vessels wherever possible. Supplies will however not be delayed on this account.

22. Arbitration
In case of any dispute or difference between the parties as to the construction, effect or application of these presents of any term or provision thereof or as to the amount or extent of any liability hereunder or as to any matter or thing in any way arising in connection with this contract, the same shall be referred to the Arbitrator or Arbitrators to be appointed by the mutual consent of both parties after consultation with one another, and the provisions of the Indian Arbitration Act for the time being in force shall apply to the arbitration proceedings and the award shall be binding on both parties. For orders placed with foreign suppliers/manufacturers, arbitration by International Chamber of Commerce, Geneva shall be specified.

23. The stores shall be despatched at public tariff rates in the case of FOR station of despatch contract and the stores shall be booked at full wagon rates whenever available and by the most economical route or by the most economical tariff available at the time of despatch as the case may be. Failure to do so will render the supplier liable for any avoidable expenditure caused to the purchaser. Where alternative route exist Mahanadi Coalfields Limited shall, if called upon so to do indicate the most economical route available or name the authority whose advice in the matter should be taken and acted upon. If any advice of any such authority is sought his decision or advice in the matter shall be final and binding on the supplier.

24. Passing of Property
Property in the stores shall not pass to the purchaser unless the stores have been delivered to the consignee or interim consignee as the case may be in terms of the contract.

25. Laws Governing the Contract
a) This contract shall be governed by the Laws of India for the time being in force.
b) Irrespective of the place of delivery, the place of performance or place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender or supply order has been issued.
c) Jurisdiction of Court
The courts of the place from acceptance of tender has been issued shall alone have justification to decide any dispute arising out of or in respect of the contract.
d) Marking of Stores
The marking of the stores must comply with the requirements of the law relating to Merchandise Marks for the time being in force in India.

26. Corrupt Practices
(a) The supplier shall not offer or give or agree to give to any person in the employment of the purchaser or working under the orders of Mahanadi Coalfields Limited any gift or consideration of any kind as an inducement or reward for going or forbearing to do or for having done or forbore to do any act in relation to the obtaining or execution of the contract or any other contract with the purchaser or for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the purchaser. Any breach of the aforesaid condition by the supplier or any one employed by him or acting on his behalf (whether with or without the knowledge of the supplier) or the Commission of any offence by the supplier or by any one employed by him or acting on the behalf under chapter IX of the Indian Penal Code,1860 or the Prevention of Corruption Act, 1947 and any amendments thereto or any other Act enacted for prevention of corruption by Public Servants shall entitle Mahanadi Coalfields Limited to cancel the contract and all or any other contract with the supplier and to
recover from the supplier the amount of any loss arising from such cancellation in accordance with the provision of Clause -19.

b) Any dispute or difference in respect of either the interpretation effect or application of the above condition or of the amount recoverable, the retender by the purchaser from the supplier shall be decided by Mahanadi Coalfields Limited whose decision thereon shall be final and binding on the supplier.

27. Insolvency and Branch of Contract
Mahanadi Coalfields Ltd. may at any time by notice in writing summarily determine the contract without compensation to the supplier in any of the following events, that is to say:

a) If the supplier being an individual or if a firm any partner thereof, shall at any time be adjudged insolvent or shall have a receiving order for administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or enter into any arrangements or composition with his creditors or suspend payment or if the firm be dissolved under the Partnership Act.

b) If the supplier being a company is wound up voluntary by the order of a court or a Receiver. Liquidator Manager on behalf of the Debenture-Holders is appointed or circumstances shall have arisen which entitled the court or Debenture-Holder to appoint a Receiver. Liquidator or Manager.

c) If the supplier commits any breach of the contract not herein specifically provided for:

Provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue thereafter to the purchaser and provided also the supplier shall be liable to pay to the purchaser for any extra expenditure he is thereby put to and the supplier shall under no circumstances be entitled to any gain on repurchase.

28. Progress Report

a) The supplier shall from time to time render such reports concerning the progress of the contract and/or supply of the stores in such form as may be required.

b) The submission, receipt and acceptance of such reports shall not prejudice the right of the purchaser under the contract, nor shall operate as an estoppel against the purchaser merely by reason of the fact that he has not taken notice of or objected to any information contained in such report.

***************************************************************************************
FORMAT OF LETTER OF BID

LETTER HEAD OF BIDDER

To
The Tender Committee
MM Department
MCL, HQ Burla Sambalpur

Sub: Letter of Bid for Supply of

Ref: 1. NIT No: MCL/SBP/MMD/SEC-I/R-
2. Tender Id No: 2015_MCL_

Dear Sirs,

I/We offer to supply the material as per our offered rate/price in accordance with the conditions of the NIT document as available on the website.

This Bid and your subsequent Supply/Purchase Order shall constitute a binding contract between us.

I/We hereby confirm our acceptance of all the terms and conditions of the NIT document unconditionally.

If any information furnished by me/us online towards eligibility in this tender is found to be incorrect at any time, penal action as deemed fit may be taken against me/us for which I/we shall have no claim against MCL.

(This document is digitally signed by the DSC holder authorised by the bidder and therefore no physical signature is required)
ANNEXURE-C

PROFORMA FOR AFFIDAVIT TO BE SUBMITTED BY THE L-1 Bidder
(for genuineness of the information furnished on-line and authenticity of the documents produced before Tender Committee for verification in support of his eligibility)

Non Judicial Stampo Paper (minimum value of Rs.10).

AFFIDAVIT

I/We, ________________________________, authorized representative of M/s. ________________________________, solemnly declare that:

1. I/We am/are submitting Tender for supply of ________________________________ against NIT No.__________
   ______ dated ______, vide Tender ID ____________________

2. All information furnished by me/us on-line in respect of fulfillment of eligibility criteria and qualification information of this Tender is complete, correct and true.

3. All scanned copy of documents uploaded by me/us in support of the information furnished online by me/us towards eligibility are valid and authentic.

4. * I/We have never been banned or delisted by any Govt. or Quasi Govt. Agency or any Public Sector Undertaking.

   OR

   I/We have been banned by the organization named "________________________" for a period of ________ years, effective from ______________ to ______________

5. If any information furnished by me/us online and scanned copy of documents uploaded in support of the information furnished online by me/us towards eligibility is found to be fake/incorrect at any time, Mahanadi Coalfields Ltd. may cancel my Tender and penal action as deemed fit may be taken against me/us, including termination of the contract, forfeiture of Earnest Money and banning/delisting of our firm and all partners of the firm for a minimum period of 01 (one) year.

* Strike out which ever is not applicable

Signature of the Tendered

Dated________________________

Signature & Seal of Notary
FORMAT OF BANK GUARANTEE FOR SECURITY DEPOSIT

Messrs ____________________, a company having its office at ____________________, (hereinafter, called the seller) has entered into a contract No. ____________________, dated ____________________, (hereinafter called the said contract) with Mahanadi coalfields Limited (hereinafter called the purchaser) to supply stores/materials on the term and conditions contained in the said Contract.

1. It has been agreed that hundred percent (100%) payment of the value of the order will be made to the Sellers in terms of the said contract on the Seller furnishing to the purchaser a Bank Guarantee for the sum of Rs. ____________________, equivalent to 10% value of the stores/materials supplied by the seller as security for the due and faithful performance of the terms of the said contract and against any loss or damage caused to or would be caused to or suffered by Purchaser by reason of any breach by the said seller of any of the terms and conditions contained in the said contract.

The ____________________, Bank having its office at ____________________, has at the request of Seller agreed to give the guarantee hereinafter contained.

2. We, ____________________, Bank Ltd., do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the purchaser stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of any breach by the said Seller of any of the terms and conditions contained in the said contract or by reason of the Seller's failure to perform the said contract. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. We shall not withhold the payment on the ground that the Seller has disputed its liability to pay or has disputed the quantum of the amount or that any arbitration proceeding or legal proceeding is pending between the Purchaser and the Seller regarding the claim. However, our liability under this guarantee shall be restricted to an amount not exceeding ____________________.

3. We, ____________________, Bank Ltd., further agree that the guarantee herein contained shall come into force from the date hereof and shall remain in full force and effect, during the period that would be taken for the performance of the said contract and it shall continue to be enforceable till all the dues of the purchaser under or by virtue of the said contract have been fully paid and its claims satisfied or purchaser certifies that the terms and conditions of the said contract have been fully and properly carried out by the said Seller and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the _______________ (date to be given) _______________ and unless the guarantee is renewed or a claim is preferred against the Bank within _______________ (months from the date of the Bank Guarantee) we shall be discharged from all liability under this guarantee thereafter.

4. We, ____________________, Bank Limited, further agree with the purchaser, that the purchaser, shall have the fullest liberty, without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend the time of performance of the said contract from time to time or to postpone for any time or from time to time any of the powers exercisable by the purchaser against the seller and to forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said seller or for any forbearance, act or omission on the part of the purchaser, or any indulgence by the purchaser, to the seller or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank further agrees that in case this guarantee is required for a longer period and it is not extended by the Bank beyond the period specified above, the Bank shall pay to the purchaser the said sum of Rs. ____________________ (specify the amount) or such lesser sum as may then be due to the purchaser and as the purchaser may demand.
5. We, __________________ Bank Limited, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the purchaser, in writing.

6. The Bank has under its constitution, power to give this guarantee and Mr. __________________ Manager, who has signed it on behalf of the Bank has authority to do so.

This Bank Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor.

The Bank Guarantee is operational for all purposes at Sambalpur Branch, Odisha [Branch Code: _____]

The Postal Address, Telephone no., Fax No. and e-Mail address of both the outstation Bank issuing the BG and Sambalpur Operating Branch are as under:-

1. Postal Address of the Outstation Bank issuing the BG:
2. Telephone No. of the Outstation Bank issuing the BG:
3. Fax No. of the Outstation Bank issuing the BG:
4. e-Mail of the Outstation Bank issuing the BG:
5. Postal Address of the Operating Bank at Sambalpur, Odisha:
6. Telephone No. of the Operating Bank at Sambalpur, Odisha:
7. Fax No. of the Operating Bank at Sambalpur, Odisha:
8. e-Mail of the Operating Bank at Sambalpur, Odisha:

Dated __________________ day of __________________ for __________________

_________________________________________ Bank Limited

Signature of the authorized person
For and on behalf of the Bank
FORMAT OF BANK GUARANTEE FOR PERFORMANCE GUARANTEE

Messrs ______________________, a company having its office at ______________________, (hereinafter, called the seller) has entered into a contract No. ______________________ dated. ______________________ (hereinafter called the said contract) with Mahanadi coalfields Limited (hereinafter called the purchaser) to supply stores/materials on the terms and conditions contained in the said Contract.

1. It has been agreed that hundred percent (100%) payment of the value of the order will be made to the Sellers in terms of the said contract on the Seller furnishing to the purchaser a Bank Guarantee for the sum of Rs. ____________ equivalent to 10% value of the stores/materials supplied by the seller as security for the due and faithful performance of the terms of the said contract and against any loss or damage caused to or would be caused to or suffered by Purchaser by reason of any breach by the said seller of any of the terms and conditions contained in the said contract.

The ______________________ Bank having its office at ______________________ has at the request of Seller agreed to give the guarantee hereinafter contained.

2. We ______________________ Bank Ltd., do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the purchaser stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of any breach by the said Seller of any of the terms and conditions contained in the said contract or by reason of the Seller’s failure to perform the said contract. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. We shall not withhold the payment on the ground that the Seller has disputed its liability to pay or has disputed the amount of the amount or that any arbitration proceeding or legal proceeding is pending between the Purchaser and the Seller regarding the claim. However, our liability under this guarantee shall be restricted to an amount not exceeding ____________.

3. We, ______________________ Bank Ltd., further agree that the guarantee herein contained shall come into force from the date hereof and shall remain in full force and effect, during the period that would be taken for the performance of the said contract and it shall continue to be enforceable till all the dues of the purchaser under or by virtue of the said contract have been fully paid and its claims satisfied or purchase certifies that the terms and conditions of the said contract have been fully and properly carried out by the said Seller and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the ____________ (date to be given) ____________ and unless the guarantee is renewed or a claim is preferred against the Bank within ____________ (months from the date of the Bank Guarantee) we shall be discharged from all liability under this guarantee thereafter.

4. We, ______________________ Bank Limited, further agree with the purchaser, that the purchaser, shall have the fullest liberty, without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend the time of performance of the said contract from time to time or to postpone for any time or from time to time any of the powers exercisable by the purchaser against the seller and to forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said seller or for any forbearance, act or omission on the part of the purchaser, or any indulgence by the purchaser, to the seller or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank further agrees that in case this guarantee is required for a longer period and it is not extended by the Bank beyond the period specified above, the Bank shall pay to the purchaser the said sum of Rs. ____________ (specify the amount) or such lesser sum as may then be due to the purchaser and as the purchaser may demand.

5. We, ______________________ Bank Limited, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the purchaser, in writing.
6. The Bank has under its constitution, power to give this guarantee and Mr. _______________ Manager, who has signed it on behalf of the Bank has authority to do so.

This Bank Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor.

The Bank Guarantee is operational for all purposes at Sambalpur Branch, Odisha [Branch Code: _______]

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4. e-Mail of the Outstation Bank issuing the BG:
5. Postal Address of the Operating Bank at Sambalpur, Odisha:
6. Telephone No. of the Operating Bank at Sambalpur, Odisha:
7. Fax No. of the Operating Bank at Sambalpur, Odisha:
8. e-Mail of the Operating Bank at Sambalpur, Odisha:

Dated ______________________ day of ______________________ for ______________

______________________________________________ Bank Limited

Signature of the authorized person
For and on behalf of the Bank
INTEGRITY PACT

General
This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on _______ day of the month of ________, between, on one hand, Mahanadi Coalfields Limited (hereinafter called the "BUYER", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s _______ represented by Shri _______, Designation of the Officer (hereinafter called the "BIDDER/Seller", which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private Company / Public Company / Government Undertaking /Partnership / registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER
1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, Gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.
Commitments of BIDDERS:

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or postcontract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.

3.3* BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates, if applicable.

3.4* BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract, if applicable.

3.5* The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether Indian or foreign of intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation, if applicable.

3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11* The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of BUYER
has financial interest/stage in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprises in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Sanctions for Violations

5.1 Any breach of the aforesaid provisions by the BIDDER or any, one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-

(i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

(ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.

(iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.

(vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

(vii) To debar the BIDDER from participating the future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.

(viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BIDDER with the BUYER, the same shall not be opened.

(x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) TO (X) OF THIS Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of BIDDER), of an offence as defined in Chapter IX of the Indian Penal code. 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
6. Independent Monitors

6.1 The BUYER has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be given).
6.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
6.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
6.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of the meetings.
6.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
6.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
6.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
6.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/within 8 to 10 weeks from the date of reference or intimation to him by the BUYER/ BIDDER and should the occasion arise, submit proposals for correcting problematic situations.

7. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

8. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

9. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

10. Validity

10.1 The validity of this Integrity Pact shall be from date of its signing and extend up to 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.
10.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

11. The parties hereby sign this Integrity Pact at __________ on __________
BUYER
Mahanadi Coalfields Limited

Witness

1.
2.

BIDDER
Name of the Officer
Designation

Witness

1.
2.
MANDATE FORM FOR ELECTRONIC FUND TRANSFER/INTERNET BANKING PAYMENT

To,
The Mahanadi Coalfields Limited,
Jaagriti Vihar,
Buria, Sambalpur – 768020

Dear Sir,

Sub: Authorisation for release of payment due from Mahanadi Coalfields Limited, Buria through Electronic Fund Transfer/Internet Banking (SBI-NET).

Ref.: Order No. __________________ Date ____________ and/or Tender/Enquiry/ Letter No. __________________ Date ____________

(Please fill in the information in CAPITAL LETTERS, Please TICK wherever it is applicable)

1. Name of the Party ____________________________

2. Address of the Party ____________________________
   City____________________ PIN CODE___________
   E-Mail ID ____________________________
   Permanent Account Number ____________________________


<table>
<thead>
<tr>
<th>Bank Name</th>
<th>Branch Name</th>
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</thead>
<tbody>
<tr>
<td>Branch Place</td>
<td>Branch City</td>
</tr>
<tr>
<td>PIN Code</td>
<td>Branch Code</td>
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</tbody>
</table>

(MICR No.).

(9 Digits code number appearing on the MICR Band of the cheque supplied by the Bank. Please attach Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name and code number)

<table>
<thead>
<tr>
<th>RTGS CODE</th>
</tr>
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<tbody>
<tr>
<td>Account Type</td>
</tr>
<tr>
<td>Account Number (as appearing in the Cheque Book)</td>
</tr>
</tbody>
</table>

4. Date from which the mandate should be effective.

I hereby declare that the particulars given above are correct and complete. If any transaction is delayed or not effected for reasons of incomplete or incorrect information. I shall not hold Mahanadi Coalfields Limited responsible. I also undertake to advise any change in the particulars of my account to facilitate updation of records for purpose of credit of amount through SBI Net.

Place:__________________________
Date: ____________________________
Signature of the party/Authorised Signatory

Certified that particulars furnished above are correct as per our records

Banker’s Stamp
Date: ____________________________
(Signature of Authorised official from the Banks)
### ISSUE & UTILIZATION PROCEDURE OF e-Way BILL

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<td>1.</td>
<td>Name of the Consignor</td>
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<td>2.</td>
<td>Consignor Address with State:</td>
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<td>Contact No.</td>
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<td>3.</td>
<td>Consignor TIN No.</td>
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<tr>
<td>4. (a)</td>
<td>Place of Dispatch of goods</td>
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<td></td>
<td>State</td>
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<td>4. (b)</td>
<td>Place of Dispatch of goods (Actual/Expected)</td>
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<td>4. (c)</td>
<td>Name of entry/exit gate in ODISHA. Jamsolaghat/ Girisola/ Biramitrapur/ Laxman Nath road/ Luhurachati (Choose &amp; write one gate only)</td>
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<td>5.</td>
<td>Description of Goods:</td>
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<td>Quantity of goods</td>
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<td>6. (a)</td>
<td>Invoice/Challan details</td>
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<td>Invoice No.</td>
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<td>6. (b)</td>
<td>Purchase/work Order No. &amp; Date</td>
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<tr>
<td>7. (a)</td>
<td>Vehicle carrier/Transporter</td>
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<td>7. (b)</td>
<td>Vehicle Regd. No.</td>
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<td>7. (c)</td>
<td>Lorry/Transporter Receipt No. &amp; Date</td>
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<td>7. (d)</td>
<td>Owner of the Vehicle</td>
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<td>7. (e)</td>
<td>Name of the Driver</td>
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<td>8.</td>
<td>Consignee Area &amp; Contract No. &amp; e-mail ID</td>
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<td>Area</td>
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</table>

The above information should be sent through hard copy/Fax/e-mail on readiness of the consignment with above details. The system generated way bill shall be sent to the requisitioner and the consignor.
<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description of Item</th>
<th>Specification Parameter</th>
<th>Type of document to be produced by L-1 bidder</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply of 09 mtr. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre with 06 nos. 400 watt HPSV joint fitting with a DG set of adequate capacity inclusive of testing and commissioning.</td>
<td>Supply of 09 mtr. long mobile trolley mounted telescopic &amp; tilting type high mast lighting tower with tubeless / solid rubber tyre with 06 nos. 400 watt HPSV joint fitting with a DG set of adequate capacity inclusive of testing and commissioning.</td>
<td>Type test certificate: A) Tenderer shall also submit Type Test Certificates from the Government Test House/Institution for Lighting Mast Tower for individual offered height of Tower and power operated winch to be fitted with individual offered height of tower. B) Manufacturer’s test certificate for items that requires conformity to IS</td>
</tr>
</tbody>
</table>

**TECHNICAL PARAMETER SHEET**

**Scope of Work:** The scope of supply includes design, supply, testing and commissioning of mobile trolley mounted telescopic & tilting type high mast lighting tower with tubeless / solid rubber tyre with 06 nos. 400 watt HPSV joint fitting with a DG set as per IS:IE/ Other statutory Rules/Law in force from time to time.

**DG Set:** Adequate capacity (minimum 7.5 KVA) along with sound proof enclosure, safety features and accessories. DG set with accessories like low tube oil pressure switch, high temp. sensor etc. as per CPCB norms.

**Broad Technical Requirements:**

The design and construction feature of the lighting mast tower shall generally meet the following basic requirements. The materials used in the fabrication/construction of the tower and its design shall conform to the BIS or other international standards amended up to date.

**Basic Technical Parameters for Design Consideration Parameters/Detail Other Information:**

1. Type of tower required - Movable Trolley Mounted; Telescopic Tilting Type with tubeless / solid rubber tyres and winches, Motor operated with suitable Power Tool for Telescopic and Tilting Operation
2. Material of construction of Tower - Material for construction of tower shall conform to Indian standards (latest) / international standards. Galvanisation shall conform to Indian standards (latest) / international standards
3. Regional basis wind speed - 180 Kilometers/Hr
4. Trough plate Configuration - T-3
5. Terrain Category - Cat-4, Class-A as per IS: 875 (latest as on date)
6. Risk Co-efficient Factor - Corresponding to Life Span of 25 Years
7. Height of Lighting Mast Tower - 09 Mtr (excluding height of Trolley and Cradle)
8. Cross section of Mast - Polygonal / Triangular / square
9. Lantern cradle - As required
10. Nos. of Luminaries per structure - 6 Nos. 400 watt HPSV light with control gear box & Lamp
11. Mean design life - 25 years
13. Nos. of Ropes and its Size - As required
14. Supply voltage : 220-250 Volts A.C between two phase, mid point earthed as per rule 116 of IER 1956

**Trolley Base for Movable Lighting Mast Tower:** It is ruggedly built having spring leaf type suspension and mounted on solid/pneumatic tyres of suitable Size. It is easily towed to different locations with the help of locally available vehicle. The tyres shall have mud guards. In addition to the mast, the trolley have space for mounting control panel, winches and tool box. It should also have a vertical support resting the mast in the tilted position. The trolley is provided with outriggers with manually operated jacks for leveling the base of the tower and to lift the tyres from the ground level. The riggers also provide a stable base to the unit to withstand wind speed up to 50 m/sec. The trolley is fitted with tail lights, reflectors, etc.

The lighting mast tower should have an arrangement for installation and maintenance of luminaries at ground level. The tilting arrangement of the tower should be perfectly balanced and should function smoothly without giving any jerk or need a push / pull to activate the operation.

The base should be so designed as to make its assembly and de-assembly on site within a very short time.

**Winches for Movable Lighting Mast Tower:**

The Lighting Mast Tower shall have an optimally balanced system for raising and lowering of the luminaries and control gear boxes for regular maintenance works. The same shall be provided by means of suitable winch(es) fixed at the base with 4 wire suspension wire rope of adequate size or as required for the system it shall be designed and fabricated for easy operation of winch, a done and friction type self actuating braking system which applies automatically on load/weight of the tower sections and the luminaires on its top with factor of safety as per IS amended up to date (latest).
The winch shall be suitably and robustly designed and constructed making it reliable and easy to operate. The enclosed type gears shall be appropriately designed, machine cut duly heat treated and ground to achieve adequate strength against wearing etc. The rope drum shall be made of ERW (Electric resistance weld) heavy duty tube and fabricated as per IS 807 which shall be suitably mounted on ball bearings. The drum shall be with suitable wire rope anchoring arrangement. The surface of the drum shall be grooved suitably to ensure perfect sealing of rope.

The rope termination in the winch shall be such that at least 5 to 6 turns of rope remains on the drum even after using the winch fully for extension of tower. The firm shall submit the Type Test Certificate of the Winch along with offer. The flexible Steel Wire Rope of the tower shall be of minimum 10 mm diameter, 6 x 36 construction, non-corrotable galvanized and with out any intermediate joint. It shall have minimum Breaking Strength of over 56 KN conforming to relevant IS amended up to date. The winch shall be Electrically Operated / Power Tool operated having provision for manual operation, designed and fabricated for easy operation of the winch; a screw and friction disc type self-actuating braking system which applies automatically on load weight of the tower sections and the luminaries on its top.

Power Tool:
1 (one) Sets of Power Tools for smooth operation of winches fitted with the each Lighting Mast Towers shall be supplied along with tower. The Power Tool should be suitable for smooth operation of the Lighting Mast Towers mentioned in this tender. The voltage rating of the motor of Power Tool shall be 220-250 Volts A.C supply, 1 Phase, 50 Hz.

Mast Lighting Control Panel (MLCP):
One MLCP shall be supplied along with each tower suitable for Outdoor Type use/application. The MLCP shall be designed for dust and moisture protection (IP-55) with pad locking arrangement.
Luminaries shall be controlled by a suitable current rating, 2 Pole, 230 Volts ISI marked RCCB / RCBO having earth leakage current of 30 Milli Ampere and Short Circuit Protection, HRC Fuses, Off Load Isolator Switch and Electronic Timer (For automatic switching ON and OFF the lights) depending upon the wattage of luminaries. In addition to RCCB / RCBO, each Luminary shall be controlled by suitable current rated twin pole MCR (50 Marked) individually to protect against overload and short circuit. For the purpose of operation of winches, the MLCP shall have contactors, interlocking arrangement where required, Fuses, Push Buttons etc. for safety. The wiring diagram shall be pasted (displayed) inside each MLCP.

The MLCP shall be provided with suitable PVC copper conductor cables and cable glands for incoming, outgoing and through going cables. The MLCP shall have suitable space to house the contactors, interlocking contactors and Push Buttons etc. for lowering and raising the lighting structure. Suitable size of terminal connectors, copper lugs with identification ferrules shall be used for the wiring. The size and dimensional drawing of MLCP (thickness of plate used should not be less than 2 mm) with wiring and other details of panel shall be submitted along with the offer. The MLCP shall be given anti rust treatment by sand blasting after fabrication and applying two coats of zinc based primer paint and finally painting as per safety standards.

Cables: Suitable length of ISI marked PVC insulated, PVC sheathed copper conductor cable of suitable cross section shall be provided along with PVC wire barded Flexible Hose conduit pipes as a part of supply for wiring from the MLCP to the individual luminaries on top of fully extended tower. Suitable size cross section of cable shall be used for all wiring works.

Earthing System: Earthing System shall be carried out as per IE rules (Amended up to date).

Lightening Protection:
Suitable Lightning protection is to be provided in each Lighting Mast Tower to protect against lightning as per IS: 2309 (Amended up to date).

Luminaries of Lighting Mast Towers:
The Luminaries shall be long range, high intensity, energy saving HPSV Flood Light with self reflector in aluminium die cast body and its Control Gear Box. It should be Dust Moisture and Vormin Proof and shall have minimum IP: 65 / 66 Protection suitable for 6 nos. of 400 Watts, 230 Volts lamps. The luminaries shall be incorporated with vibration isolators, toughened front glass of minimum 6 mm thickness, focusing arrangement with suitable gaskets as per IP 66.

PAINTING:
The tower must be coated with anti rust painting or galvanized. For safety against collision, it is painted so that it is creamy yellow during night time.

Tools & Tackles:
Complete Set of Tools & Tackles as required shall be supplied for each Lighting Mast Tower as the time of supply.
Supply of 09 mtrs. long mobile trolley mounted telescopic & tilting type high mast lighting tower with tubeless / solid rubber tyre with 6 nos. 2X400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning.

Scope of work – The scope of supply includes design, supply, testing and commissioning of mobile trolley mounted telescopic & tilting type high mast lighting tower with tubeless / solid rubber tyre with 6 nos. 2X400 watt HPSV light fitting with a DG set as per IS/EI/ Other statutory Rules/Law in force from time to time.

**DG Set:** adequate capacity (minimum 7.5 KVA) along with sound proof enclosure, safety features and accessories. DG set with accessories like low lube oil pressure switch, high temp. alarm, etc., as per CNSO norms.

**Broad Technical Requirements**

The design and construction feature of the lighting mast tower shall generally meet the following basic requirements. The materials used in the fabrication/construction of the tower and its design shall conform to the IS or other international standards amended up to date.

**Basic technical parameters for design consideration parameters/datas/other information:**

1. **Type of tower required - Moveable Trolley Mounted Telescopic Tilting Type with tubeless / solid rubber tyre and winch** Operated with suitable Power Tool for Telescopic and Tilting Operation
3. **Regional basis wind speed - 180 Kilometers/Hr**
4. **Topography Configuration - T 3**
5. **Terrain Category - Cat-4, Class-A as per IS:875 (latest as on date)**
6. **Risk Co-efficient Factor - Corresponding to Life Span of 25 Years**
7. **Height of Lighting Mast Tower - 09 Mtr. (excluding height of Trolley & Girdle)**
8. **Cross section of Mast - Polygonal / Triangular / square**
9. **Lantern cradle - As required**
10. **Nos. of Luminaries per structure - 6 Nos. 2x400 watt HPSV light with control gear box & Lamp**
11. **Mean design life - 25 years**
12. **Winches – Motor operated & Provision for manual operation in case of power failure**
13. **Nos. of Ropes and its Size - As required**
14. **Supply voltage - 220-250 Volts A.C between two phase, mid point earthed as per rule 116 of IFR 1956.**

**Trolley Base for Moveable Lighting Mast Tower:** It is a self contained unit having spring leaf assembly and mounted on solid/pneumatic tyres of suitable size, it is easily towed to different locations with the help of locally available vehicle. The tyres shall have mud guards. In addition to the mast, the trolley have space for mounting control panel, winches and tool box. It should also have a vertical support resting the mast in the tilted position. The trolley is provided with outriggers with manually operated jacks for leveling the base of the tower and to lift the tyres from the ground level. The riggers also provide a stable base to the unit to withstand wind speed up to 50 m/sec. The trolley is fitted with tail lights, reflectors, etc.

The Lighting Mast Tower should have an arrangement for installation and maintenance of luminaries at ground level. The tilting arrangement of the Tower should be perfectly balanced and should function smoothly without giving any jerk or need a push/pull to activate the operation. The base should be so designed as to make its assembly and de-assembly on site within a very short time.

**Winches for Moveable Lighting Mast Tower:**

The Lighting Mast Tower shall have an optimally balanced system for raising and lowering of the luminaries and control gear box for regular maintenance works. The same shall be provided by means of suitable winch(es) fixed at the base with 4 wire suspension wire rope of adequate size or as required for the system it shall be designed and fabricated for easy operation of winch; a screw and friction disc type self actuating braking system which applies automatically on load/weight of the tower sections and the luminaries on its top with factor of safety as per IS amended up to date (latest).
The winch shall be suitably and robustly designed and constructed making it reliable and easy to operate. The enclosed type gears shall be appropriately designed, machine cut duty heat treated and ground to achieve adequate strength against wearing etc. The rope drum shall be made of ERW (Electric resistance weld) heavy duty tube and fabricated as per IS 897 which shall be suitably mounted on ball bearings. The drum shall be with suitable wire rope anchoring arrangement. The surface of the drum shall be grooved suitably to ensure perfect seating of rope.

The rope termination in the winch shall be such that at least 5 to 6 turns of rope remains on the drum even after using the winch fully for extension of tower. The firm shall submit the Type Test Certificate of the Winch along with offer. The Flexible Steel Wire Rope of the tower shall be of minimum 10 mm diameter, 6 x 36 construction, non-corrosible galvanized and with out any intermediate joint. It shall have minimum breaking strength of over 56 KN conforming to relevant IS amended up to date. The winch shall be Electrically Operated / Power Tool operated having provision for manual operation, designed and fabricated for easy operation of the winch; a screw and friction disc type self-actuating braking system which applies automatically on load weight of the tower sections and the luminaries on its top.

**Power Tool:**
1 (one) Sets of Power Tools for smooth operation of winches fitted with the each Lighting Mast Towers shall be supplied along with tower. The Power Tool should be suitable for smooth operation of the Lighting Mast Towers mentioned in this tender. The voltage rating of the motor of Power Tool shall be 220-250 Volts A.C supply, 1 Phase, 50 Hz.

**Mast Lighting Control Panel (MLCP):**
One MLCP shall be supplied along with each tower suitable for Outdoor Type use/application. The MLCP shall be designed for dust and moisture protection (IP-55) with pad locking arrangement.
Luminaries shall be controlled by a suitable current rating, 2 Pole, 230 Volts, ISI marked RCCB / RCBO having earth leakage current of 30 Milli Ampere and Short Circuit Protection, HRC Fuses, Off Load Isolator Switch and Electronic Timer (FOR automatic switching ON and OFF the lights) depending upon the wattage of luminary. In addition to RCCB / RCBO, each Luminary shall be controlled by suitable current rated two poles MCB (ISI Marked) individually to protect against over load and short circuit. For the purpose of operation of winches, the MLCP shall have contactors, interlocking arrangement where required, Fuses, Push Buttons etc. for safety. The wiring diagram shall be pasted (displayed) inside each MLCP.

The MLCP shall be provided with suitable PVC copper conductor cables and cable glands for incoming, outgoing and through going cables. The MLCP shall have suitable space to house the contactors, interlocking contactors and Push Buttons etc. for lowering and raising the lighting structure. Suitable size of terminal connectors, copper lugs with identification ferrules shall be used for the wiring. The size and dimensional drawing of MLCP (thickness of plate used should not be less than 2 mm) with wiring and other details of panel shall be submitted along with the offer. The MLCP shall be given anti rust treatment by sand blasting after fabrication and applying two coats of zinc based primer paint and finally painting as per safety standards.

**Cables:** Suitable length of ISI marked PVC insulated, PVC sheathed copper conductor cable of suitable cross section shall be provided along with PVC wire braded Flexible Hose conduits as a part of supply for wiring from the MLCP to the individual luminaries on top of fully extended tower. Suitable size cross section of cable shall be used for all wiring works.

**Earthing System:** Earthing System shall be carried out as per IE rules (Amended up to date).

**Lightning Protection:**
Suitable Lightning protection is to be provided in each Lighting Mast Tower to protect against lightning as per IS 3839 (Amended up to date).

**Luminaries of Lighting Mast Towers:**
The Luminaries shall be long range, high intensity, energy saving HP5V Flood Light with stainless steel reflector in aluminum die cast body and its Control Gear Box. It should be Dust, Moisture and Varmap Proof and shall have minimum IP: 65 65 Protection suitable for 8 nos. of 2 x 400 Watts, 230 Volts lamps. The luminary shall be incorporated with vibration isolators, toughened front glass of minimum 5 mm thickness, focusing arrangement with suitable gaskets as per IP 65.

**PAINTING:**
The tower must be coated with anti rust painting or galvanized. For safety against collision, it is painted so that it is clearly visible during night time.

**Tools & Tackles:**
Complete Set of Tools & Tackles as required shall be supplied for each Lighting Mast Tower at the time of supply.
| Supply of 11 mtrs. long mobile trolley mounted telescopic & tilting type high mast lighting tower with tubeless / solid rubber tyre with 8 nos. 2X400 watt HPSV light fitting with a DG set of adequate capacity inclusive of testing and commissioning. | Type test certificate:
A) Tenderer shall also submit Type Test Certificate from the Government Test House/Institution for Lighting Mast Tower for individual Offered height of Tower and power operated winch to be fitted with individual offered height of tower.
B) Manufacturer's test certificate for items that requires conformity to IS |

**Scope of work** – The scope of supply includes design, supply, testing and commissioning of mobile trolley mounted telescopic & tilting type high mast lighting tower with tubeless / solid rubber tyre with 8 nos. 2X400 watt HPSV light fitting with a DG set as per IS/IEI. Other statutory Rules/Law in force from time to time

**DG Set**: adequate capacity (minimum 7.5 KVA) along with sound proof enclosure, safety features and accessories. DG set with accessories like low lube oil pressure switch, high temp. sensor, etc. as per CPCB norms.

**Broad Technical Requirements**

The design and construction feature of the lighting mast tower shall generally meet the following basic requirements. The materials used in the fabrication/construction of the tower and its design shall conform to the BIS or other international standards amended up to date.

**Basic technical parameters for design consideration parameters/ datas/ other information** –

1. **Type of tower required** - Movable Trolley Mounted Telescopic Tilting Type with tubeless / solid rubber tyres and winches. Motor operated with suitable Power Tool for Telescopic and Tilting Operation
2. **Material of construction of Tower** - Material for construction of tower shall conform to Indian standards (latest) / International standards. Galvanisation shall conform to Indian standards (latest) / International standards
3. **Regional basis wind speed** - 180 Kilometers/Hr
4. **Topography Configuration** - 1:3
5. **Terrain Category** - Cat-4. Class-A as per IS:875 (latest as on date)
6. **Risk Co-efficient Factor** - Corresponding to Life Span of 25 Years
7. **Height of lighting Mast Tower** - 11 Mtr (excluding height of Trolley and Masthead)
8. **Cross section of Mast** - Polygonal / Triangular/ square
9. **Lantern, Cradle** - As required
10. **Nos. of Luminaries per structure** - 8 Nos. 2x400watt HPSV light with control gear box & Lamp
11. **Mean design life** - 26 years
12. **Winches** - Motor operated & Provision for manual operation in case of power failure
13. **Nos. of Ropes** and its Size - As required
14. **Supply voltage** : 220-250 Volts A.C between two Phase, mid point earthed as per rule 116 of IER 1956.

**Trolley Base for Movable Lighting Mast Tower:** It is rigidly built having spring leaf assembly and mounted on solid/pneumatic tyres of suitable Size. It is easily towed to different locations with the help of locally available vehicle. The tyres shall have mud guards. In addition to the mast, the trolley have space for mounting control panel, winches and tool box. It should also have a vertical support resting the mast in the tilted position. The trolley is provided with outriggers with manually operated jacks for leveling the base of the tower and to lift the mast from the ground level. The riggers also provide a stable base to the unit to withstand wind speed up to 50 m/sec. The trolley is fitted with tail lights, reflectors, etc.

The Lighting Mast Tower should have an arrangement for installation and maintenance of luminaries at ground level. The tilting arrangement of the Tower should be perfectly balanced and should function smoothly without giving any jerk or need a push / pull to activate the operation.

The base should be so designed as to make its assembly and de-assembly on site within a very short time.

**Winches for Movable Lighting Mast Tower:**

The Lighting Mast Tower shall have optimally balanced system for raising and lowering of the luminaries and control gear boxes for regular maintenance works. The same shall be provided by means of suitable winch(es) fixed at the base with 4 wire suspension wire rope of adequate size or as required for the system it shall be designed and fabricated for easy operation of winch; a screw and friction disc type self actuating braking system which applies automatically on load/weight of the tower sections and the luminaries on its top with factor of safety as per IS ammended up to date (tentative).
The winch shall be suitably and robustly designed and constructed making it reliable and easy to operate. The enclosed type gears shall be appropriately designed, machine out duly heat treated and ground to achieve adequate strength against wearing etc. The rope drum shall be made of ERW (Electric resistance welded) heavy duty tube and fabricated as per IS 807 which shall be suitably mounted on ball bearings. The drum shall be with suitable wire rope anchoring arrangement. The surface of the drum shall be grooved suitably to ensure perfect sealing of rope.

The rope termination in the winch shall be such that at least 5 to 6 turns of rope remains on the drum even after using the winch fully for extension of tower. The firm shall submit the Type Test Certificate of the Winch along with offer. The flexible Steel Wire Rope of the tower shall be of minimum 10 mm diameter, 6 x 36 construction, non corrotable galvanized and with out any intermediate joint, it shall have minimum Breaking Strength of over 56 KN conforming to relevant IS amended up to date. The winch shall be Electrically Operated / Power Tool operated having provision for manual operation, designed and fabricated for easy operation of the winch; a screw and friction disc type self-actuating braking system which applies automatically on load weight of the tower sections and the luminaries on its top.

**Power Tool:**

1 (one) Set of Power Tools for smooth operation of winches fitted with each Lighting Mast Towers shall be supplied along with tower. The Power Tool should be suitable for smooth operation of the Lighting Mast Towers mentioned in this tender. The voltage rating of the motor of Power Tool shall be 220-250 Volts A.C. supply, 1 Phase, 50 Hz.

**Mast Lighting Control Panel (MLCP):**

One MLCP shall be supplied along with each tower suitable for Outdoor Type use/application.

The MLCP shall be designed for dust and moisture protection (IP-55) with pad locking arrangement.

Luminaries shall be controlled by a suitable current rating, 2 Pole, 230 Volts ISI marked RCCB / RCGO having earth leakage current of 30 Mill Ampere and Short Circuit Protection, HRC Fuses, Off Load Isolator Switch and Electronic Timer (For automatic switching ON and OFF the lights) depending upon the wattage of luminaries. In addition to RCCB / RCGO, each Luminary shall be controlled by suitable current rating pilot MCR (16 A Locked) initially to protect against max load and short circuit. For the purpose of operation of winches, the MLCP shall have contactors, interlocking arrangement where required, Fuses, Push Buttons etc. for safety. The wiring diagram shall be pasted (displayed) inside each MLCP.

The MLCP shall be provided with suitable PVC copper conductor cables and cable glands for incoming, outgoing and through going cables.

The MLCP shall have suitable space to house the contactors, interlocking contactors and Push Buttons etc. for lowering and raising the lighting structure. Suitable size of terminal connectors, copper lugs with identification ferrules shall be used for the wiring.

The size and dimensional drawing of MLCP (thickness of plate used should not be less than 2 mm) with wiring and other details of panel shall be submitted along with the offer. The MLCP shall be given anti rust treatment by sand blasting after fabrication and applying two coats of zinc based primer paint and finally painting as per safety standards.

Cables: Suitable length of ISI marked PVC insulated, PVC sheathed copper conductor cable of suitable cross section shall be provided along with PVC wire braded Flexible Hose conduit pipes as a part of supply for wiring from the MLCP to the individual luminaries on top of fully extended tower. Suitable size cross section of cable shall be used for all wiring works.

**Earthing System:** Earthing System shall be carried out as per IE rules (Amended up to date).

**Lightning Protection:**

Suitable lightning protection is to be provided in each Lighting Mast Tower to protect against lightning as per IS: 2309 (Amended up to date).

**Luminaries of Lighting Mast Towers:**

The Luminaries shall be long range, high intensity, energy saving HPSV Flood Light with stainless steel reflector in aluminium die cast body and its Control Gear Box. It should be Dust, Moisture and Vermin Proof and shall have minimum IP: 60/66 Protection suitable for 8 nos. of 2 x 400 Watts, 230 Volts lamps. The luminary shall be incorporated with vibration isolators, toughened front glass of minimum 6 mm thickness, focusing arrangement with suitable gaskets as per IP 66.

**PAINTING**

The tower must be coated with anti rust painting or galvanized. For safety against collision, it is painted so that it is brightly visible during night time.

**Tools & Tackles:**

Complete Set of Tools & Tackles as required shall be supplied for each Lighting Mast Tower at the time of supply.
<table>
<thead>
<tr>
<th><strong>4 16 mtrs long ground mounted high mast lighting Tower with 8 nos., 1x400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>16 MTRS long ground mounted high mast lighting Tower with 8 nos., 1x400 watts HPSV Light fittings inclusive erection and commissioning.</td>
</tr>
<tr>
<td><strong>Type test certificate:</strong></td>
</tr>
<tr>
<td>A) Tenderer shall also submit Type Test Certificates from the Government Test House/Institution for Lighting Mast Tower for Individual Offered Height of Tower</td>
</tr>
<tr>
<td>B) Tenderer shall also submit Type Test Certificates from the Government Test House/Institution for power</td>
</tr>
</tbody>
</table>

**SCOPE OF WORK** – The scope of supply includes design, supply, erection, testing and commissioning of High Mast Ground mounted Lighting Towers on the RCC foundation as per IS / IRC / other statutory rules / law in force at time to time.

The design and construction features of all the Lighting Mast Towers shall generally meet the basic requirements as mentioned here under. The material used in the fabrication / construction of tower and its design shall conform to the BIS or other international standards amended up to date as referred above.

**Broad Technical Requirements**

The design and construction feature of the tower shall generally meet the following basic requirements. The materials used in the fabrication/construction of the tower and its design shall conform to the BIS or other international standards amended up to date as referred above.

**Basic technical parameters for design consideration parameters/datas/other information** –

| 1. Type of tower required - Ground mounted lighting tower with electrically operated / power tool operated winches having provision for manual operation for up and down movement of lantern carriage. |
| 3. Regional basis wind speed - 180 Kilometers/Hr |
| 4. Topography Configuration - 1:3 |
| 5. Terrain Category - Cat-C, Class-A as per IS:876 (latest as on date) |
| 6. Risk Co-efficient Factor - Corresponding to Life Span of 25 Years |
| 7. Height of Lightning Mast Tower - 16 Mtr high |
| 8. Cross section of Mast - Polygonal / TRIANGULAR / SQUARE |
| 9. Lantern carriage - As required |
| 10. Nos. of Luminaires per structure - 8 Nos. 1 X 400 watts HPSV light fittings complete with control gear box and lamp |
| 11. Mean design life - 25 years |
| 12. Winches - Electrically operated power tool winches having provision for manual operation. |
| 13. Nos. of Ropes and its size - As required |
| 15. Electric Power Source - Power supply will be arranged by MCL up to Tower only. |

**Base for Ground Mounted Lighting Mast Tower:**

The base of the Tower shall be made of suitably designed MS plate/channel frame rigidly welded and fixing holes which can be erected on the RCC foundation. Complete foundation work will be under the scope of the bidder & shall be conforming to appropriate IS / Code of practice for civil work.

**Winches for Ground Mounted Lighting Mast Tower:**

The Lighting Mast Tower shall have an optimally balanced system for raising and lowering of the luminaires and control gear boxes for regular maintenance works. The same shall be provided by means of suitable winch(es) fixed at the base with 2 wire suspension wire rope of adequate size or as required for the system it shall be designed and fabricated for easy operation of winch; a screw and friction disc type self actuating braking system which applies automatically on load / weight of the lower sections and the luminaires on its top with factor of safety as per IS amended up to date (latest)

The winch shall be Double Drum and Double Gear type suitably and robustly designed and constructed making it reliable and easy to operate. The enclosed type gears shall be appropriately designed, machine cut duly heat treated and ground to achieve adequate strength against wear and etc. The rope drum shall be made of LRW (Electric Resistance Weld) Heavy Duty tube and fabricated as per BIS 807, which shall be suitably mounted on ball bearings. The drum shall be suitable wire rope anchoring arrangement. The surface of the drum shall be grooved suitably to ensure perfect sealing of rope. The rope termination in the winch shall be such that at least 5 to 6 turns of rope remains on the drum even after using the winch fully for raising/lowering of Cradle.

Steel Wire Rope of the tower should of Grade AISI 316. Rope shall be of minimum omm. 9x19. Any construction without any intermediate part shall have minimum breaking strength of 2400Kg conforming to latest IS. The winch shall be electrically operated / power tool operated having provision for manual operation.
Power Tool:
1 (one) Sets of Power Tools for smooth operation of winches fitted with each the Lighting Mast Towers shall be supplied along with tower. The Power Tool should be suitable for smooth operation of the Lighting Mast Towers mentioned in this tender.

Mast Lighting Control Panel:
One MLCP shall be supplied along with each tower suitable for Outdoor Type use/application.
The MLCP shall be designed for dust and moisture protection with pad locking arrangement. The enclosure shall be as per IP-55 box.
Luminaries shall be controlled by a 2 Pole, 230 Volts, suitable current rating depending upon the wattage of luminary: ISI marked RCCB / RCBO shall have earth leakage current of 30 Mill Ampere and Short Circuit Protection, HRC Fuses, Off Load isolator Switch and Electronic Timer with battery back up (For automatic switching ON and OFF the lights) shall also be provided.
In addition to RCCB / RCBO, each Luminary shall be controlled by suitable current rated two poles MCB (ISI Marked) individually to protect against over load and short circuit. For the purpose of operation of winches, the MLCP shall have contactors, interlocking arrangement. Fuses, Push Buttons etc. for safety. The wiring diagram shall be pasted (displayed) inside each MLCP.
The MLCP shall be provided with suitable PVC copper conductor cables and cable glands for incoming, outgoing and through going cables. The details of cable sizes shall be indicated by the bidder in their offer.
The MLCP shall have suitable space to house the contactors, interlocking contactors and Push Buttons etc. for lowering and raising the lighting fixture. Suitable size of terminal connectors, copper lugs with identification ferrules shall be used for the wiring.

Cables:
Suitable length of ISI marked PVC insulated, PVC sheathed copper conductor multi strand cable of suitable cross section shall be provided along with PVC wire braded Flexible Hose conduit pipes as a part of supply for wiring from the MLCP to the individual luminaries on top of fully extended tower. Suitable size cross section of cable shall be used for all wiring works.

Earthling System:
Earthing System of the ground mounted Lighting Mast Tower; MLCP etc. shall be carried out as per I.E rules (Amended up to date).

Lightening Protection:
Suitable Lightning protection is to be provided in each Lighting Mast Tower to protect against lightning as per IS: 2309 (Amended up to date).

Aviation safety signal light
A suitable safety signal light with two nos. incandescent light & PVC cable shall be provided as per the statutory safety rule

Luminaries of Lighting Mast Towers:
The Luminaries shall be suitable for long range, high intensity, energy saving HPSV Flood Light of 1 x 400 Watts, 230 Volts conforming to IS 10322 (latest) and the enclosure along with Control Gear Box should be Dust, Moisture and Vermint Proof and shall have minimum IP: 65 Protection and shall be as per IS-10322 and IS 13383 (latest) The luminary shall be incorporated with vibration isolators, toughened front glass of minimum 5 mm thickness, focusing arrangement with suitable gaskets as per IP 65 protection. The necessary lamps, balast capacitor shall be of ISI marked.

Tools & Tackles:
Complete Set of Tools & Tackles as required shall be supplied for each Lighting Mast Tower at the time of supply.

PAINTING
Galvanized painting on both inside and outside of tower. For safety against collision, lower portion of the mast is so painted that it is clearly visible during night time.

5 16 mtrs long ground mounted high mast lighting Tower with 8 nos, 2x400 watts HPSV Light fittings inclusive erection and commissioning, complete with all respect.

16 MTRS long ground mounted high mast lighting Tower with 8 nos, 2x400 watts HPSV Light fittings inclusive erection and commissioning.

Type test certificate:
A) Tenderer shall also submit Type Test Certificates from the Government Test House/Institution for Lighting Mast Tower for individual offered height of Tower
B) Tenderer shall also submit Type Test Certificates from the Government Test House/Institution for power

SCOPE OF WORK – The scope of supply includes design, supply, erection, testing and commissioning of High Mast ground mounted Lighting Towers on the RCC foundation as per IS / IE / other statutory rules / law in forced time to time.
The design and construction features of all the Lighting Mast Towers shall generally meet the latest requirements as introduced from time to time. The materials used in the fabrication / construction of tower and its design shall conform to the BIS or other International standards amended up to date.

Broad Technical Requirements
The design and construction feature of the tower shall generally meet the following basic requirements. The materials used in the fabrication/construction of the tower and its design shall conform to the BIS or other international standards amended up to date as referred above.
# Basic Technical Parameters for Design Consideration

- **Type of Tower Required**: Ground mounted lighting tower with electrically operated / power tool operated winches having provision for manual operation for up and down movement of lantern carriage.
- **Material of Construction of Tower**: Material for construction of tower shall conform to Indian standards (latest) / International standards. Galvanisation shall conform to Indian standards (latest) / International standards.
- **Regional Basis Wind Speed**: 180 Kilometers/Hr
- **Topography / Configuration**: 4.8
- **Terrain Category**: Cat-4, Class-A as per IS:875 (latest as on date)
- **Risk Co-efficient Factor**: Corresponding to Life Span of 25 Years
- **Height of Lighting Mast Tower**: 16.0 Mtr high
- **Cross Section of Mast**: Polygonal / TRiangular / SQUARE
- **Lantern Carriage**: As required
- **Nos. of Luminaries per Structure**: 8 Nos. 2 X 400 watts HPSV light fittings complete with control gear box and lamp.
- **Mean Design Life**: 25 years
- **Electric Power Source**: Power supply will be arranged by MCL up to Tower only.

### Base for Ground Mounted Lighting Mast Tower:
The base of the Tower shall be made of suitably designed MS plate/channel frame rigidly welded and fixing holes which can be created on the N.O.C foundation. Complete foundation work will be under the scope of the bidder & shall be conforming to appropriate IS / Code of practices for civil work.

### Winches for Ground Mounted Lighting Mast Tower:
The Lighting Mast Tower shall have an optimally balanced system for raising and lowering of the luminaries and control gear boxes for regular maintenance works. The same shall be provided by means of suitable winch(es) fixed at the base with 2 wire suspension wire rope of adequate size or as required for the system it shall be designed and fabricated for easy operation of winch; a screw and friction disc type self actuating braking system which applies automatically on load / weight of the tower sections and the luminaries on its top with factor of safety as per IS amended up to date (latest)

The winch shall be Double Drum and Double Gear type suitably and robustly designed and constructed making it reliable and easy to operate. The enclosed type gears shall be appropriately designed, machine cut duly heat treated and ground to achieve adequate strength against wearing etc. The rope drum shall be made of ERW (Electric Resistance Welded) Heavy Duty tube and fabricated as per BIS 807, which shall be suitably mounted on ball bearings. The drum shall be suitable wire rope anchoring arrangement. The surface of the drum shall be grooved suitably to ensure perfect seating of rope. The rope termination in the winch shall be such that at least 5 to 6 turns of rope remains on the drum even after using the winch fully for raising/lowering of Cradle.

Steel Wire Rope of the tower should of Grade AISI 316. Rope shall be of minimum 8mm dia. 7X19 construction without any intermediate joint. It shall have minimum breaking strength of 2400Kg conforming to latest IS. The winch shall be electrically operated /power tool operated having provision for manual operation.

### Power Tool:
1 (one) Sets of Power Tools for smooth operation of winches fitted with each the Lighting Mast Towers shall be supplied along with tower. The Power Tool should be suitable for smooth operation of the Lighting Mast Towers mentioned in this tender.

### Mast Lighting Control Panel:
One MLCP shall be supplied along with each tower suitable for Outdoor Type use/application.
- The MLCP shall be designed for dust and moisture protection with pad locking arrangement. The enclosure shall be as per IP-55 type.
- Luminaries shall be controlled by a 2 Pole, 230 Volts, suitable current rating depending upon the wattage of luminaries. ISI marked RCCS / RCBO shall have earth leakage current of 30 MS Amperes and Short Circuit Protection. HRC Fuses, Off Load Isolator Switch and Electronic Timer with battery back up (For automatic switching ON and OFF the lights) shall also be provided.
In addition to RICCB / RCBO, each Luminary shall be controlled by suitable current
rated two poles MCB (BSI Marked) individually to protect against over load and short
circuit. For the purpose of operation of winches, the MLCP shall have contactors,
interlocking arrangement, Fuses, Push Buttons etc. for safety. The wiring diagram
shall be pasted (displayed) inside each MLCP.
The MLCP shall be provided with suitable PVC copper conductor cables and cable
glands for incoming, outgoing and through going cables. The details of cable sizes
shall be indicated by the bidder in their offer.
The MLCP shall have suitable space to house the contactors, interlocking contactors
and Push Buttons etc. for lowering and raising the lighting fixture. Suitable size of
terminal connectors, copper lugs with identification ferrules shall be used for the
wiring.

Cables:
Suitable length of ISI marked PVC insulated, PVC sheathed copper conductor multi
strand cable of suitable cross section shall be provided along with PVC wire braded
Flexible Hose conduit pipes as a part of supply for wiring from the MLCP to the
individual luminaries on top of fully extended tower. Suitable size cross section of
cable shall be used for al wiring work.

Earthing System:
Earthing System of the ground mounted Lighting Mast Tower; MLCP etc. shall be
carried out as per IE rules (Amended up to date).

Lightening Protection:
Suitable Lightening proof is to be provided in each Lighting Mast Tower to protect
against lightening as per IS: 2359 (Amended up to date).

Aviation safety signal light
A suitable safety signal light with two nos. incandescent light & PVC cable shall be
provided as per the statutory safety rule.

Luminaries of Lighting Mast Towers:
The Luminaries shall be suitable for long range, high intensity, energy saving HPVS
Flood Light of 2 x 400 Watts, 230 Volts conforming to IS 10322 (latest) and the
enclosure along with Control Gear Box should be Dust, Moisture and Vermin Proof
and shall have minimum IP: 65 Protection and shall be as per IS-10322 and IS 13393
(latest) The luminary shall be incorporated with vibration isolators, thickened front
glass of minimum 5 mm thickness, focusing arrangement with suitable gaskets as per
IP 65 protection. The necessary/lampe, ballast capacitor shall be of ISI marked.

Tools & Tackles:
Complete Set of Tools & Tackles as required shall be supplied for each Lighting Mast
Tower at the time of supply.

PAINTING
Galvanized painting on both inside and outside of tower. For safety against collision,
lower portion of the mast is so painted that it is clearly visible during night time.

| 6 | 20 mtrs long ground mounted high mast lighting Tower with 8 nos. 2x400 watts HPVS Light fittings inclusive erection and commissioning | 20 MTRs long ground mounted high mast lighting Tower with 8 nos. 2x400 watts HPVS Light fittings inclusive erection and commissioning. |

Type test certificate:
A) Tenderer shall also submit Type Test Certificates from the
Government Test
House/Institution for Lighting Mast Tower for individual
Offered height of Tower
B) Tenderer shall also submit Type Test Certificates from the
Government Test
House/Institution for power

SCOPE OF WORK – The scope of supply includes design, supply, erection, testing
and commissioning of High Mast ground mounted Lighting Towers on the RCC
foundation as per IS / IE / other statutory rules / law in forced time to time.

The design and construction features of all the Lighting Mast Towers shall generally
meet the basic requirements as mentioned here under. The material used in the
fabrication / construction of tower and its design shall conform to the BSI or other
international standards amended up to date.

Broad Technical Requirements

The design and construction feature of the tower shall generally meet the following
basic requirements. The materials used in the fabrication/construction of the tower and
its design shall conform to the BIS or other international standards amended up to
date as referred above.

Basic technical parameters for design consideration parameters/datas/other
information -

1. Type of tower required - Ground mounted lighting tower with electrically operated /
power tool operated winches having provision for manual operation for up and down
movement of lantern carriage.
2. Material of construction of Tower - Material for construction of tower shall conform to
Indian standards (latest) / International standards. Galvanisation shall conform to
Indian standards (latest) / International standards.
3. Regional basis wind speed – 180 Kilometers/Hr
4. Topography Configuration - 1.3
5. Terrain Category - Cet-4, Class-A as per IS-875 (latest as on date)
6. Risk Co-efficient Factor - Corresponding to Life Span of 25 Years
7. Height of Lighting Mast Tower - 20 Mtr high
8. Cross section of Mast - Polygonal / TRINGULAR/ SQUARE
9. Lantern carriage - As required
10. Nos. of Luminaries per structure - 8 Nos. 2 X 400 watts HPVS light fittings complete with control gear box and lamp.
11. Mean design life - 25 years
12. Winches - Electrically operated power tool winches having provision for manual operation.
13. Nos. of Ropes and its Size - As required
15. Electric Power Source - Power supply will be arranged by MCL up to Tower only.

**Base for Ground Mounted Lighting Mast Tower:**
The base of the Tower shall be made of suitably designed MS plate/channel frame rigidly welded and fixing holes which can be erected on the R.C.C foundation. Complete foundation work will be under the scope of the bidder & shall be conforming to appropriate IS / Code of practices for civil work.

**Winches for Ground Mounted Lighting Mast Tower:**
The Lighting Mast Tower shall have an optimally balanced system for raising and lowering of the luminaries and control gear boxes for regular maintenance works. The same shall be provided by means of suitable winch(s) fixed at the base with 2 wire suspension wire rope of adequate size or as required for the system it shall be designed and fabricated for easy operation of winch; a screw and friction disc type self actuating braking system which applies automatically on load/height of the tower sections and the luminaries on its top with factor of safety as per IS amended up to date (latest)

The winch shall be Double Drum and Double Gear type suitably and robustly designed and constructed making it reliable and easy to operate. The enclosed type gears shall be appropriately designed, machined out duty heat treated and ground to achieve adequate strength against wearing etc. The rope drum shall be made of ERW (Electric Resistance Welded) Heavy Duty tube and fabricated as per BIS 807, which shall be suitably mounted on ball bearings. The drum shall be suitable wire rope anchoring arrangement. The surface of the drum shall be grooved suitably to ensure perfect seating of rope. The rope termination in the winch shall be such that at least 5 to 6 turns of rope remains on the drum even after using the winch fully for raising/lowering of Cradle.

**Diesel Wire Rope of the tower shall of Grade AISI 016...Rope shall be of minimum 6mm dia.7X19 construction without any intermediate joint. It shall have minimum breaking strength of 2400Kg conforming to latest IS. The winch shall be electrically operated /power tool operated having provision for manual operation.

**Power Tool:**
1 (one) Sets of Power Tools for smooth operation of winches fitted with each the Lighting Mast Towers shall be supplied along with tower. The Power Tool should be suitable for smooth operation of the Lighting Mast Towers mentioned in this tender.

**Mast Lighting Control Panel:**
One MLCP shall be supplied along with each tower suitable for Outdoor Type use/ application.
The MLCP shall be designed for dust and moisture protection with pad locking arrangement. The enclosure shall be as per IP-55 type.
Luminaries shall be controlled by a 2 Pole, 230 Volts, suitable current rating depending upon the wattage of luminary. ISI marked RCCB /RCBO shall have earth leakage current of 30 Milli Ampere and Short Circuit Protection, HRC Fuses, Off Load Isolator Switch and Electronic Timer with battery back up (For automatic switching ON and OFF the lights) shall also be provided.

In addition to RCCB /RCBO, each Luminary shall be controlled by suitable current rated two poles MCB (ISI Marked) individually to protect against overload and short circuit. For the purpose of operation of winches, the MLCP shall have contactors, interlocking arrangement, Fuses, Push Buttons etc. for safety. The wiring diagram shall be pasted (displayed) inside each MLCP.
The MLCP shall be provided with suitable PVC copper conductor cables and cable glands for incoming, outgoing and through going cables. The details of cable sizes shall be indicated by the bidder in their offer.
The MLCP shall have suitable space to house the contactors, interlocking contactors and Push Buttons etc. for lowering and raising the lighting fixture. Suitable size of terminal connectors, copper lugs with identification ferrules shall be used for the wiring.

**Cables:**
Suitable length of ISI marked PVC insulated, PVC sheathed copper conductor multi strand cable of suitable cross section shall be provided along with PVC wire braded multiple hose conduct pipes as a part of supply for wiring from the MLCP to the individual luminaries on top of fully extended tower. Suitable size cross section of cable shall be used for all wiring works.

**Earthing System:**
Earthing System of the ground mounted Lighting Mast Tower; MLCP etc. shall be carried out as per IE rules (Amended up to date).
**Lightning Protection:**
Suitable lightning protection is to be provided in each Lighting Mast Tower to protect against lightning as per IS: 2398 (Amended up to date).

**Aviation safety signal light**
A suitable safety signal light with two nos. incandescent light & PVC cable shall be provided as per the statutory safety rule.

**Luminaries of Lighting Mast Towers:**
The luminaries shall be suitable for long range, high intensity, energy saving HPSV Flood Light of 2 x 400 Watts, 230 Volts conforming to IS 10322 (latest) and the armatures along with Mounted Gear Ring would be风雨 Moisture and Vibration Proof and shall have minimum IP: 65 Protection and shall be as per IS-10322 and IS 13338 (latest). The luminary shall be incorporated with vibration isolators, toughened front glass of minimum 5 mm thickness, focusing arrangement with suitable gaskets as per IP 65 protection. The necessary lamps, ballast capacitor shall be of ISI marked.

**Tools & Tackles:**
Complete Set of Tools & Tackles as required shall be supplied for each Lighting Mast Tower at the time of supply.

**PAINTING**
Galvanized painting on both inside and outside of tower. For safety against collision, lower portion of the mast is so painted that it is clearly visible during night time.