Dear Sirs

Sub: Notice Inviting Tender for supply of Trunk belt Conveyor & Gate Belt Conveyor Qty: 9 Sets (8 sets Trunk belt & 1 set of Gate Belt Conveyor)

1. Sealed tenders are invited in duplicate only from the proven manufacturers or their exclusively authorised sole selling agents authorised by their manufacturer to offer against this tender for supply of Trunk belt Conveyor & Gate belt Conveyor to various Areas of BCCL as per detailed specifications as Annexure – “A”.

PROVEN MEANS THOSE MANUFACTURERS OR EXCLUSIVELY AUTHORISED SOLE SELLING AGENTS WHO HAVE SUPPLIED TENDERED ITEM(S) IN PAST TO (a) OEM OR (b) TO THE MINING INDUSTRY AND/OR TO THE OTHER INDUSTRIES(PRIVATE OR GOVERNMENT/PUBLIC SECTOR UNDERTAKING—INDIGENOUS OR GLOBAL) AGAINST REGULAR (FIRM) ORDER( NOT TRIAL ORDER) PLACED BY COMPANY’S HQ. FOR THIS PURPOSE THE FIRM SHOULD SUBMIT AUTHENTICATED COPY OF SUCH PURCHASE ORDERS RECEIVED BY THEM HOWEVER TRIAL ORDERS PLACED BY BCCL CO. HQ. MAY BE CONSIDERED IF THE FIRM OBTAINS PROVEN STATUS ON PERFORMANCE BASIS AGAINST SUCH TRIAL ORDERS

2. The offers are to be submitted before the closing date and time as mentioned above.

3. Tenderers may be deposited in person by the tenderer in the Tender Box kept at Tender cell, Purchase Department, office of the CGM(MM), Bharat Coking Coal Limited, Commercial Block, Level –III, Koyla Bhawan, Koyla Nagar, Dhanbad or sent by post or courier to the above

C.R.NO……DATED……….
address. Bharat Coking Coal Limited, however, do not take any responsibility for loss of tender in transit. A tender which has not been received on the due date and before the time of opening of the tender, the same will not be considered. No relaxation in this respect will be entertained.

4. Tenders sent through telegram, telex, Fax or E-Mail will not be considered.

5. Tender documents/forms purchased by one firm are not transferable to another firm.

6. The tender document is divided into the following parts:
   (i) Annexure ‘A’ - Technical specification
   (ii) Annexure ‘B’ - Commercial terms without price.
   (iii) Annexure ‘C’ - Check List

7. (a) The offers are to be submitted in three parts. The first part “Part-I i.e. Techno-commercial offer” should contain the detailed Technical and commercial terms of the offer. However, this should not contain the price. The envelope should be sealed superscribed with the tender number and the date of opening and must mark Part I

   (b) The second Part “Part-II i.e. Price Bid” should contain the details of price only. The envelope should be sealed superscribed with the tender number and the date of opening and must mark Part II.

   (c) “Part – III” [Applicable for those tenderers who will downloaded tender documents from our web site.]

   In this case the intending tenderer must enclose the requisite tender fee as Bank Draft from any schedule Bank drawn in favour of “BHARAT COKEING COAL LIMITED” payable at Dhanbad in the “Part – III” envelope. The envelope shall be sealed, superscribed with tender number and due date of opening and must mark “Part-III”.

   All the envelopes containing the tender shall be properly sealed. Envelopes stapled shall not be accepted. The name and address of the bidder must also be indicated on the envelopes. Please note that envelopes stapled shall not be accepted.

   All these three sealed envelopes i.e. “Part – I” [Techno-commercial bid], “Part- II” [Price bid] and “Part – III” [Requisite tender fee as indicated in the tender notice] should be kept in a bigger envelope giving details of the tender No. and due date of submission and opening along with the name and address of the bidder.

   In absence of “Part-III” envelope offer shall be rejected out rightly without any reference for those tenderers who have downloaded the tender documents from our website.

8. Part - I (Techno commercial Offer) and “Part – III” (Tender fee) will be opened on the due date of tender opening in presence of the authorised representative of the attending bidders

   NOTE.

   a) Tenders not submitted in the above manner will not be accepted.

   b) If tender disclose their price in the techno-commercial bid(Part-I), the offer will be re-sealed and will be treated as invalid offer by the Tender opening Committee.

   09. The price bids i.e. Part - II of only those tenders whose Part- I is found to be techno-commercially acceptable to BCCL will be opened later on. Date and time of opening will suitably be intimated to such bidders whose offers are found techno-commercially acceptable.

   10. Bharat Coking Coal Limited reserves the right to accept or reject any or all offers in part or in full without assigning any reason thereof. No dispute of any kind can be raised against this right of the buyer in any court of law or elsewhere.
NOTE.
c) Tenders not submitted in the above manner will not be accepted.
d) If tender disclose their price in the techno-commercial bid(Part-I), the offer will be re-sealed and will be treated as invalid offer by the Tender opening Committee.

09. The price bids i.e. Part-II of only those tenders whose Part-I is found to be techno-commercially acceptable to BCCL will be opened later on. Date and time of opening will suitably be intimated to such bidders whose offers are found techno-commercially acceptable.

10. Bharat Coking Coal Limited reserves the right to accept or reject any or all offers in part or in full without assigning any reason thereof. No dispute of any kind can be raised against this right of the buyer in any court of law or elsewhere.

11. Earnest Money:
   a) An Earnest money of **Rs. 8.00 Lakh** in terms of Bank Draft of any schedule Bank drawn in favour of Bharat Coking Coal Limited payable at Dhanbad must accompany the Part-I (Techno-commercial offer) otherwise offer shall be considered unresponsive.
   b) If it is accompany the Part-II (Price bid), it will be presumed that tenderer has not deposited the requisite Earnest money and their offer shall be considered unresponsive.

12. Security money – Successful tenderer are required to deposit security money in the form of Bank Draft/Bank Guarantee of any schedule Bank of 10% of the order(value means F.O.R destination price) within 15 days from the date of receipt of order. Bank draft should be drawn in favour of “BHARAT COKING COAL LIMITED” payable at Dhanbad. In case they fail to deposit the same, the supply order shall be cancelled and the shall be processed to order elsewhere and the firm’s performance is to be kept recorded for future dealings with them. The security will be refunded to the firm within 30 days of satisfactory execution of the contract (Execution of the contract means successfully completion of supply against the order). For unsatisfactory performance and/or contractual failure the security money shall be forfeited. Please note that security money may be converted into Performance Bank Guarantee wherever required. Please note that validity of Performance Bank Guarantee shall be as per clause 11 (a) of Commercial terms & conditions. Please confirm the acceptance of this clause clearly.

13. State/Central Govt. Organisation/PSU & Valid DGS&D/NSIC/Ancillary of BCCL registered (for tendered items), firm shall be considered for exemption for submission of EMD/Security money, if they can submit these documents after duly signed by Notary Public.

14. The bidders must give a declaration that they have not been banned or de-listed by any Government or quasi-Government agencies or PSUs. If a bidder has been banned by any Government or quasi-Government agencies or PSUs, this fact must be clearly stated and it may not necessarily be a cause for disqualifying them. If this declaration is not given, the bid will be rejected as non-responsive.

15. Bharat Coking Coal Limited reserves the right not to make any procurement against this tender without assigning any reasons.

16. Tenders of those tenderers who suo moto offer different prices or change the terms which effects the quoted price of the firm within the validity of the offer shall be treated as invalid offer ab initio and the action against such tenderer as per CIL rules / procedure will be taken.
17. ALL CONTRACTS WILL BE IN ACCORDANCE WITH THE PREVALENT INDIAN LAW AND ALL DISPUTES ARE SUBJECT TO THE JURISDICTION OF DHANBAD COURT ONLY.

IMPORTANT NOTE:

(i). The tenderers are requested to go through all the Annexure and furnish specific replies to each question raised therein.

(ii). Printed terms and conditions of the vendor shall not be considered. Tenderers are requested to submit their offer complete in all respects maintaining serial number of items, terms and conditions as per tender documents along with all supporting documents failing which offer may not be considered.

(iii). Normally no deviation is acceptable to our tender documents. Terms and Offers which are in deviation are liable for rejection without asking back reference to the tenderers. Offers as asked must be submitted complete in all respects.

(iv). Self attested copies of orders received from subsidiaries of CIL for the quoted items should be submitted along with the quotation in the Part-I (Techno-commercial offer). List of past supplies with the details of order reference and the performance report if any should be furnished along with the offer.

(v). The complete offer should be typed in the letter head of the tender (Hand written quotation will be summarily rejected). If firm’s letter heads are not sufficient to accommodate technical and pricing details preferably bigger papers may be used, such sheets along with other pages of the offer should be signed and stamped by company’s authorised signatory.

(vi). All pages of tender documents should be signed including all enclosures with the tenders except printed leaflets/catalogues and have company’s seal. This is must otherwise offer shall be rejected.

(vii). Erased and over written quotations will be summarily rejected unless corrections are authenticated with the tenderer’s signature.

(viii). BCCL reserves the right to increase or decrease the tendered quantity against any/all the items of the tender.

(ix). The tenderer must submit separate sheet in Part ‘I’ (Techno-commercial offer) indicating any deviation in their offer from the Technical and Commercial terms specified/required.

(x). Offer of those tenderers will not be considered commercially acceptable who did not successfully execute previous order placed on them by BCCL despite giving commercial notice and against whom penal action have been initiated for breach of contract.

(xi). In case a firm is proven for a sub-assly of any particular Equipment, it will be considered proven for components of that particular sub-assly of the Equipment only.

(xii) Purchase Preference Policy as per Govt. of India’s office memorandum no. DPE 13(12)/2003-Fin. Vol II dt. 18th July 2005 valid upto 31/03/2008 is applicable for any Govt. Dept/PSU tender. It is applicable to contracts of value of 5.0 crore and above but not exceeds 100.00 crore.

(xiii). As per Central Vigilance Commission (CVC) guidelines, no post tender negotiations may be held except in case of Proprietary Purchase or for items with limited source of supplies (negotiation in such case may be held only with L-1 / preferred L-1 vendor).

(xiv). If L-1 tenderer do not have adequate capacity to supply full quantity tendered, the uncovered quantity order may be distributed to L-2 tenderer at L-1 rate. Not withstanding anything said above, BCCL reserves the right to follow any guideline or instruction received from the Government or any statutory bodies from time to time.

Encl: As above

Yours faithfully,

For & on behalf of Bharat Coking Coal Limited.
COMMERCIAL TERMS:--

1. Part-I i.e. TECHNO COMMERCIAL OFFER should contain the following (but not the price of any item):

   i) Name and address of the original Manufacturer along with full details of the contacts persons, Telephone No, Fax No., E. Mail address etc.
   
   ii) Details of order received giving the name of the buyer, their address and country, date of order and number/quantity item ordered and supplied. Specific details should be given regarding the item supplied with full address of the user, so that the same can be verified if felt necessary.

   iii) Details of collaborations, if any.

   iv) Details of After Sales Service to be provided, namely address of service depots, if any, strength of after sales service personnel and their qualifications and backgrounds.

   v) Details of Training offered, if any.

   vi) Details of quality control measures/stage inspections carried out. Accreditation of any approved std. quality control institute or organization may be indicated certifying the quality system of the bidder.

   vii) Details regarding location of the works. The purchaser reserves the right to inspect the works of the bidder. What are the facilities they will provide to carry out pre despatch inspection in stages of manufacturing process, if buyer wish to do so.

   viii) A statement certifying that the bidder accepts all the commercial terms and conditions of Bharat Coking Coal Limited given in this bid documents without any reservation what so ever.

2. (A) PART II i.e. PRICE BID should contain the following:

   i) Rate (Prices) must be quoted FIRM & FOR Destination basis with the following break up.

   a) Ex-Works Price
   
   b) Freight, Insurance, Packing & Forwarding charges on lump-sum basis.
   
   c) Excise duty if applicable (It will be payable extra on Ex-works price basis)
   
   d) Sales Tax (It will be payable extra as applicable)

   NOTE: - 1. Please confirm in the technical bid Part-I that their rate is not inclusive of sales tax otherwise their offer may be ignored. However if their rate is inclusive of Ex-duty they must indicate the applicable rate of Excise duty in the technical bid i.e. Part-I

   2. The rate must be indicated both in figure and words. If there is difference between both, the amount appearing in words shall be taken for consideration.

   i) In case of direct import by us (BCCL), price will be on F.O.R. delivery Port basis only. The Price must be on FIRM basis.

   ii) In case of Imported stores and prices are in Indian rupees on FOR destination basis, only applicable sales tax and statutory local levies (if any) will be payable extra. The price must be on FIRM basis.
iii) Conditional discount including quantity discount will not be considered for comparative purpose. Cash discount or Prompt payment discount will also be treated in the same manner. However only unconditional discount will be taken into account for comparative evaluation to ascertain the competitiveness of the tender. In case of F.O.B price all discount attracts custom duty etc. except trade discount.

2 (B) – Detail evaluation of financial bids.

2 (B) (a) In spite of mentioning that offers should be submitted by the tenderers on FOR destination basis as per clause 2(A)(i) above, in case a tenderer does not specify the basis of price or quoted on ex-works or FOR despatching station basis, the price will be loaded to arrive at the F.O.R. destination price on the following manner.

<table>
<thead>
<tr>
<th>Approximate distance of dispatching Station from Consignee’s end.</th>
<th>Percentage FOR dispatching station price regarding Freight.</th>
<th>Packing and Forwarding Charges</th>
<th>Transit Insurance Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 2001 Km</td>
<td>5%</td>
<td>2%</td>
<td>½%</td>
</tr>
<tr>
<td>1501Km - 2000 Km</td>
<td>4%</td>
<td>2%</td>
<td>½%</td>
</tr>
<tr>
<td>1001 Km -1500 Km</td>
<td>3%</td>
<td>2%</td>
<td>½%</td>
</tr>
<tr>
<td>501 Km – 1000 Km</td>
<td>2%</td>
<td>2%</td>
<td>½%</td>
</tr>
<tr>
<td>Below 500 Km</td>
<td>1%</td>
<td>2%</td>
<td>½%</td>
</tr>
</tbody>
</table>

2 (B) (b) In case of Imports, the tenderers are required to quote on FOB delivery port basis. The total price will be estimated in the following manner to arrive at the CIF price & landed price of the import offers.

<table>
<thead>
<tr>
<th>Sl.no</th>
<th>Description</th>
<th>Imported from USA ,Canada and Japan</th>
<th>Imported from European and other countries.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Freight &amp; Insurance</td>
<td>12% of FOB value</td>
<td>10% of FOB value</td>
</tr>
<tr>
<td>2</td>
<td>Insurances Charges</td>
<td>1/2% of FOB value</td>
<td>½% of FOB value</td>
</tr>
<tr>
<td>3</td>
<td>Custom Duty</td>
<td>As applicable</td>
<td>As applicable</td>
</tr>
<tr>
<td>4</td>
<td>Port handling and clearance Charges, Inland transportation and other miscellaneous charges</td>
<td>5% of FOB value</td>
<td>5% of FOB value</td>
</tr>
</tbody>
</table>

To arrive the FOR destination Price in Indian Rupees, the exchange rate published in National Newspaper applicable on the date of opening of Price Bids will be taken. The applicable rate will be “Selling BC Rate”.

3. VALIDITY:- The offer must be valid for acceptance for a period of 6(Six) months from the date of opening tender. Offers will not be permitted to be withdrawn during this period.

4. ULTIMATE CONSIGNEE:- The materials may be consigned to any of the depot of BCCL.

5. PRICE VARIATION: I) Only FIRM price shall be quoted. No price variation will be allowed during the pendency of the contract excepting for price fall clause.
6. PAYMENT TERM:
   a) For indigenous supplies.
      100% within 30 days of receipt and acceptance of the materials by the consignee or from the date of receipt of Bill, whichever is later by the consignee.
   b) For imported supplies if Price is on FOB basis.
      In case of imported items where the price is on F.O.B. value 90% will be paid against letter of credit. Balance 10% will be paid after receipt and acceptance of materials. Agency commission will be paid in Indian Rupee. Clearly indicate the quantum of Agency Commission included in the F.O.B Price.

7. Either the Indian Agent on behalf of the foreign principal or the foreign principal may directly bid in a tender but not both.
   If an agent participates in a tender on behalf of one manufacturer, he should not quote on behalf of another manufacturer along with the first manufacturer for the same item.

8. In case of indigenous supplies, Tenderers are required to furnish the following details/information in the techno-commercial bid Part-I for transferring the Money to the supplier’s account through e-banking while making payment
   a. Name of the Bank.
   b. Name of the Branch with complete address.
   c. Party’s Account Style.
   d. Party’s nature of Account.
   e. Party’s Account Number.

9. DELIVERY:
   i) Required delivery schedule-

<table>
<thead>
<tr>
<th>Sl.no</th>
<th>Item</th>
<th>Delivery Schedule</th>
</tr>
</thead>
</table>

   ii) The bidder should be in a position to supply in specific delivery period at least 25% of the total tendered quantity, otherwise offer shall be considered unresponsive.
   iii) The delivery schedule quoted in the offer shall be firm and final. Delivery will be counted from the date of receipt of the order. Failure to supply the material in time may attract penalty as per clause No. 10

10. PENALTY FOR FAILURE TO SUPPLY IN TIME:
   - As per Appendix -I

11. (a) GUARANTEE/WARRANTY/PERFORMANCE BANK GUARANTEE
(a) GUARANTEE/WARRANTY/PERFORMANCE BANK GUARANTEE

i) The item will be warranted against any manufacturing defects/workmanship for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance. Any defect observed on this account shall be attended to immediately and in no case beyond a period of one month. For specific warranty on assemblies and sub-assemblies, details given in Technical specification may be referred to.

ii) Special Warranty Clause:- If the order is decided to be placed on the bidder, the bidder should confirm against the clause that in the event of any breakdown or failure of performance due to defects in materials, design, workmanship, spare parts etc. BCCL shall promptly notify the supplier in writing of any claims arising under this warranty. The repairs replacement or rectification work shall be carried out by the supplier at site at no cost to the purchase within 21 days of settlement of warranty claims.

“At no cost to the purchaser” means, the supplier will have to bear all the expenses up to the destination site i.e. Ex-works prices, Excise Duty, Sales Tax, Insurance, Inland Transportation charges etc. as applicable to ensure free delivery of warranty replacement at BCCL colliery sites.

The supplier will be required to stock spares to take care of warranty period breakdown. Spares should be available immediately from the date of intimation of breakdown.

iii) The suppliers must ensure that there is no major breakdown due to Manufacturing/ design defect during the warranty period. In cases such Breakdown occurs, the purchaser will reserve the right to extend the warranty period suitably as per the availability clause mentioned in the Technical Specification.

iv) A Performance Bank Guarantee on Scheduled/Nationalised Bank in India valid for 18 months from the date of receipt/acceptance for 10% Value of the order as a coverage towards the supplier’s performance against the contract (in the standard format Appendix-III enclosed herewith), must be submitted within 20 days of placement of order. No payment will be made without submission of the performance bank guarantee. The order value means F.O.R. destination price including taxes, duties, transportation & insurance charges and other charges. The performance bank guarantee is required in case of supply of equipment.

11.(b)(i) SPECIAL GUARANTEE/WARRANTY-(This clause will be in place of above clause 11(a)(i) and 11(a)(iv).

(For Equipment only)

i) The item will be warranted against any manufacturing defects/workmanship for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance. Any defect observed on this account shall be attended to immediately and in no case beyond a period of one month. For specific warranty on assemblies and sub-assemblies, details given in Technical specification may be referred to.

ii) Special Warranty Clause:- If the order is decided to be placed on the bidder, the bidder should confirm against the clause that in the event of any breakdown or
failure of performance due to defects in materials, design, workmanship, spare parts etc. BCCL shall promptly notify the supplier in writing of any claims arising under this warranty. The repairs replacement or rectification work shall be carried out by the supplier at site at no cost to the purchase within 21 days of settlement of warranty claims.

“At no cost to the purchaser” means, the supplier will have to bear all the expenses up to the destination site i.e. Ex-works prices, Excise duty, Sales tax, Insurance, Inland Transportation charges, etc. as applicable to ensure free delivery of warranty replacement at BCCL colliery sites.

The supplier will be required to stock spares to take care of warranty period breakdown. Spares should be available immediately from the date of intimation of breakdown.

iii) The suppliers must ensure that there is no major breakdown due to manufacturing / design defect during the warranty period. In case such breakdown occurs, the purchaser will reserve the right to extend the warranty period suitably as per the availability clause mentioned in the Technical Specification.

iv) A performance Bank Guarantee on Scheduled / Nationalised Bank in India valid for 18 months from the date of receipt/acceptance for 10% value of the order as a coverage towards the supplier’s performance against the contract ( in the standard format Appendix- III enclosed herewith ) , must be submitted within 20 days of placement of order. No payment will be made without submission of the performance bank guarantee. The order value means F.O.R. destination price including taxes duties, transportation & insurance charges and other charges. The performance bank guarantee is required in case of supply of equipment.

11. (b) (i) SPECIAL GUARANTEE /WARRANTY- ( Other than Equipment).

The item will be covered by guarantee/warranty against any manufacturing defects/workmanship for a period of 12 months from the date of receipt & acceptance of materials. Any defect observed on this account shall be attended to immediately and replace the material within 30 days on mutual agreement.

12. PACKING FOR TRANSIT.

The bidder should confirm provision of proper packing of the goods to be shipped by them if order is placed on them as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods final destination and absence of heavy handling facilities at all the points in transit. The packing, marking and documentation within and outside the package shall comply strictly with such special requirement as shall be expressly provided for in the order.

13. QUALITY CONTROL MEASURE

The bidder shall furnish details of quality control measures being adopted by him, including any International / Indian standard being followed.

14. PRICE FALL CLAUSE:

- As per Appendix -II
15. FORCE MAJEURE CLAUSE

If the execution of the contract/supply order is delayed beyond the period stipulated in the contract / supply order as a result of out-break of hostilities, declaration of an embargo / curfew or blockade or fire, flood, acts of nature or any other contingency beyond the supplier’s control due to act of God, then BCCL 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 BCCL, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended. Further this clause state that:

a) The successful bidder will, in the event of his having to resort to this clause by a registered letter duly certified by the local Chamber of Commerce or statutory authority, the beginning and end of the causes of the delay, within fifteen days of the occurrence and cessation of such Force Majeure Conditions. In the event of delay lasting out of Force Majeure, BCCL will reserve the right to cancel the contract and provisions governing termination of contract, as stated in the bid documents will apply.

b) For delays arising out of Force Majeure, the bidder will not claim extension in completion date for a period exceeding the period of delay attributable to the causes of Force Majeure and neither BCCL nor the bidder shall be liable to pay extra costs provided it is mutually established that Force Majeure Conditions did actually exists.

c) If any of the force majeure conditions exists in the place of operation of the bidder even at the time of submission of bid, he will categorically specify them in his bid and state whether they have been taken into consideration in their quotations.

16. INSPECTION & TESTS.

i) The purchaser of its authorized representative shall have the right to inspect and/or to test the goods to confirm their conformity to the contract. The purchaser shall notify the supplier in writing of the identity of any representative retained for these purposes.

ii) If the inspections and tests is conducted on the premises of the supplier or its subcontractor(s) at point of delivery and/or at the goods final destination when conducted on the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the purchaser.

iii) Should any inspected or tested Goods fail to conform to the specifications, the purchaser may reject them and the supplier shall either replace the rejected goods and make all alternatives necessary to meet specification requirements free of cost to the Purchaser.

iv) The materials will be inspected on arrival at site by the consignee, which will be considered as final. This shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative’s i.e. third party prior to the dispatch of the Goods.

v) Nothing in these documents shall in any way release the supplier from any warranty or other obligations under this contract.

For Chief General Manager(MM)
The time and date of delivery of stores stipulated in 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. No materials should be supplied beyond the specified delivery period, unless specific approval has been obtained from the purchaser.

In the event of failure to delivery or dispatch the stores within the stipulated date/period in accordance with the samples and/or specification mentioned is the supply order, and in the event of breach of any terms and conditions mentioned in the supply order. Bharat Coking Coal Limited reserves the right:

a) To recover from successful tenderer, as agreed liquidated damages, a sum not less than 0.5% (half percentage) of the price of the stores which successful tenderer has not been able to supply (for this purpose part of a unit supplied will not be considered) as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10%. Where felt necessary the limit of 10% can be increased to 15% at the discretion of Head of the Materials Management Division.

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 cancelling the supply order in respect of consignment not yet due for supply or

c) To cancel the supply order or a portion thereof, and if so desired to purchase the store 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 encash any Bank guarantee which is available for recovery of the penalty or

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

g) Whenever under the contract a sum of money is recoverable from and payable by the supplier, BCCL shall be entitled to recover such sum by appropriating, in part or whole by deducting any sum or which at any time thereafter may be due to the successful tenderer in this or any other contract with Bharat Coking Coal Ltd. or any subsidiary of Coal India Ltd. Should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay BCCL on demand the remaining amount. The supplier shall not be entitled to any gain under this clause.

The bidder must confirm the acceptance of this Penalty clause which will not be altered.
i) The prices charged for the stores supplied under the contract by the supplier shall in no event exceed the lowest price at which the supplier sells the stores of identical description to any other organization till validity of the contract.

ii) If at any time during the said period the supplier reduces the sale price of such stores or sells such stores to any other organization at a price lower than the price chargeable under this contract, the supplier shall forthwith notify such reduction or sale to the consignee concerned under intimation to CGM(MM), Bharat Coking Coal Limited, Commercial Block, Level –III, Koyla Bhawan, Koyla Nagar, Dhanbad and the price payable under the contract for the stores supplied after the date of coming into force of such reduction or sale, shall stand correspondingly reduced. The above stipulated will not, however apply to exports by the supplier.

The bidder should confirm their acceptance of the above clause.
LETTER OF PERFORMANCE GUARANTEE.

APPENDIX-III

1. Messers ------------------------------------- ------------------ a company having its office at ------------------------------------------------ -------------------------------------------hereinafter called the Seller has entered into a Contract No.---------------------------------------dt.------ ------------- (hereinafter called the said Contract) with Bharat Coking Coal Limited (hereinafter called , the Purchaser) to supply equipment on the terms and conditions in the said Contract.

   It has been agreed that hundred percentage( 100% ) payment of the value of the equipment will be made to the seller in the terms of the said Contract on the seller furnishing to the Purchaser a Bank Guarantee for the sum of ---------------- equivalent to 10 % of the value of each equipment and accessories dispatched 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 the purchaser by reason of any of the terms or conditions contained in the said contract.

   The------------------------ Bank having its office at ------------------- has at the request of seller agreed to give the guarantee herein after 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 or 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 purchase 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 that it shall continue to be enforceable till all the dues of the purchase under or by virtue of the said contract have been fully paid and its claim satisfied or purchase certified that the terms and conditions of the said contract have been fully and properly carried out by the said seller and accordingly discharged the guarantee .Unless a demand or claim under this guarantee is made on us in writing on or before the ----------------( date to be given--- --------months from the date of Bank Guarantee ) we shall be discharged from all liability under this guarantee thereafter.

4. We., Bank Ltd. further agree with the purchaser ,that the purchaser , shall have the fullest liberty without our consent and without affecting in any manner no obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the said seller(s) 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 said seller and to forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relived from our liability by reason or 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 said seller by any such matter or thing whatsoever which under the law relating to sureties would be for this provision have effect of an 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 this purchaser the said sum of --------------------- or such lesser sum as may than be due the purchaser and as the purchaser may demand.

5. We,---------------- Bank Ltd. 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.

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

Date--------------------------- Day of ----------------------------20

For ----------------------------- Bank Limited

Signature of the authorised person

For and on behalf of the bank
ANNEXURE- “C”

CHECK- LIST
(To be filled by the Tenderer duly signed and stamped)

1. Whether the tenderer is a Manufacturer: Yes/No
2. Whether the tenderer is an exclusively authorized marketing outlet of a manufacturer: Yes/No
3. If the reply against (2) above is yes, then indicate name & full address of the Principal.
4. In case of (2) above whether the Principals Authorisation as Exclusive Authorised Marketing Outlet is enclosed with the offer: Yes/No
5. Acceptance of 6 months offer’s validity period as per clause No.3 of Annexure B of NIT: Yes/No
6. Whether quoted prices are FIRM/VARIABLE as per clause No.5of Annexure ‘B’ of NIT: Yes/No
7. Whether Price quoted is on FOR destination basis as per NIT: Yes/No
8. Whether Payment terms as per clause No.6 of Annexure ‘B’ of NIT accepted: Yes/No
9. Whether Liquidated damages & Risk purchase clause as per clause No.10 of Annexure ‘C’ of NIT accepted: Yes/No
10. Whether acceptance of Price fall clause as per clause 15 of Annexure ‘C’ of NIT accepted: Yes/No
11. Whether banned or delisted by any Govt or Quasi Govt Agency/PSU: Yes/No

NOTE: NON-ACCEPTANCE OF ANY OF THE TERMS AND CONDITIONS MAY LEAD TO REJECTION OF OFFER/THE OFFER MAY BE TREATED AS UN-RESPONSIVE.

SIGNATURE OF THE TENDERER
WITH SEAL & STAMP
SPECIFICATIONS FOR TROUGHEd BELT CONVEYORS FOR INSTALLATION IN U.G. COAL MINES

NOTE:-
1. TENDERERS ARE REQUIRED TO SUBMIT THEIR TECHNICAL BIDS IN THE FORMAT GIVEN BELOW INDICATING THEIR ACCEPTANCE/REQUIRED INFORMATION IN THE COLUMN 4 AGAINST EACH CLAUSE OF THE SPECIFICATION GIVEN UNDER COLUMN 1, 2 AND 3.
2. TENDERERS SHOULD CLEARLY INDICATE THE INFORMATION/DETAILS IN COLUMN 4 AS ASKED FOR, AVOIDING PHRASES LIKE "AS PER STANDARD " AS PER REQUIREMENT" "EQUIVALENT MAKES " ETC.
3. TENDERERS SHOULD OFFER THE EQUIPMENT STRICTLY AS PER THE SPECIFICATIONS WITHOUT DEVIATIONS.
4. TENDERERS SHOULD ENSURE THAT ALL THE DOCUMENTS SPECIFIED AT CLAUSE NO.7.0.0 ARE ENCLOSED WITH THE OFFER WITHOUT FAIL.
5. TENDERERS SHOULD ALSO SUBMIT THE ENCLOSED CHECK LIST DULY FILLED IN AND SIGNED BY AUTHORISED PERSON WITH SEAL OF THE COMPANY.

<table>
<thead>
<tr>
<th>SR. NO.</th>
<th>DESCRIPTION</th>
<th>PARAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0.0</td>
<td>SERVICE CONDITIONS</td>
<td></td>
</tr>
<tr>
<td>1.1.0</td>
<td>Place of installation</td>
<td>Underground Coal mines</td>
</tr>
<tr>
<td>1.2.0</td>
<td>Duty</td>
<td>Continuous(24hrs./Day)</td>
</tr>
<tr>
<td>1.3.0</td>
<td>Maximum ambient air temperature</td>
<td>50 deg.C.</td>
</tr>
<tr>
<td>1.4.0</td>
<td>Relative humidity(Max)</td>
<td>98%</td>
</tr>
<tr>
<td>1.5.0</td>
<td>Environment</td>
<td>Dusty(Mostly coal dust)</td>
</tr>
<tr>
<td>2.0.0</td>
<td>CONVEYOR DATA</td>
<td></td>
</tr>
<tr>
<td>2.1.0</td>
<td>Capacity in TPH</td>
<td>As per SOR given in annexure. A</td>
</tr>
<tr>
<td>2.2.0</td>
<td>Conveyor width in mm(Belt width)</td>
<td>- D0 -</td>
</tr>
<tr>
<td>2.3.0</td>
<td>Total length of conveyor in Mtrs.</td>
<td>As per SOR given in annexure.A</td>
</tr>
<tr>
<td>2.4.0</td>
<td>Belt speed in M/Sec.</td>
<td>As per SOR given in annexure.A</td>
</tr>
<tr>
<td>2.5.0</td>
<td>Drive configuration</td>
<td>As per SOR given in annexure.A</td>
</tr>
<tr>
<td>2.6.0</td>
<td>Take up travel in Mtrs.</td>
<td>As per SOR given in annexure.A</td>
</tr>
<tr>
<td>2.7.0</td>
<td>Power Rating in K.W.</td>
<td>As per SOR given in annexure.A</td>
</tr>
<tr>
<td>2.8.0</td>
<td>Type of enclosure for Motor &amp; Starter(FLP/NFLP)</td>
<td>As per SOR given in annexure.A</td>
</tr>
<tr>
<td>2.9.0</td>
<td>Lift</td>
<td>For Trunk Conveyor:- 60 mtr For Gate Belt Conveyor:- 20 mtr</td>
</tr>
<tr>
<td>3.0.0</td>
<td>SCOPE OF SUPPLY</td>
<td></td>
</tr>
<tr>
<td>3.1.0</td>
<td>Drive head assembly consisting of below mentioned Components as detailed at Sl.No.5.1.0.0(5.1.1.0 to 5.1.10.17)</td>
<td></td>
</tr>
</tbody>
</table>
3.1.1 Drive head frame: Bidder to confirm.
3.1.2 Pulleys with shafts: Bidder to confirm.
3.1.3 Gear Boxes: Bidder to confirm.
3.1.4 Motors: Bidder to confirm.
3.1.5 Fluid couplings: Bidder to confirm.
3.1.6 Output couplings: Bidder to confirm.
3.1.7 Equalizing gear (for tandem Drives): Bidder to confirm.
3.1.8 Bearing block: Bidder to confirm.
3.1.9 Anti roll back device: Bidder to confirm.
3.2.0 Starter as detailed at Sr.No.(5.2.1.0 to 5.2.12.0): Bidder to confirm.

3.3.0 Delivery Jib Assembly consisting of below mentioned components as detailed at Sr no.5.3.0.0(5.3.1.0 to 5.3.5.3)

3.3.1 Discharge pulley with shaft: Bidder to confirm.
3.3.2 Bearing blocks: Bidder to confirm.
3.3.3 Jib Structure: Bidder to confirm.
3.3.4 Belt scraper: Bidder to confirm.

3.4.0 Tail end assembly consisting of below mentioned Components as detailed at Sr.No.5.4.0.0(5.4.1.0 to 5.4.6.1)

3.4.1 Return Pulley with shaft: Bidder to confirm.
3.4.2 Bearing blocks: Bidder to confirm.
3.4.3 Tail end structure: Bidder to confirm.
3.4.4 V-type plough scraper Return Belt: Bidder to confirm.
3.4.5 Wiper/ cum dust collector unit as per DGMS Circular No.4 dated 11.5.2004: Bidder to confirm.

3.5.0 Take up assembly consisting of below mentioned Components as detailed at Sr.No.5.5.0.0(5.5.1.0 to 5.5.5.0)

3.5.1 Take up pulley with shaft: Bidder to confirm.
3.5.2 Bend/diversion pulley: Bidder to confirm.
3.5.3 Bearing blocks: Bidder to confirm.
3.5.4 Take up trolley: Bidder to confirm.
3.5.5 Take up structure: Bidder to confirm.
3.5.6 Hand/Motor operated Winches: Bidder to confirm.
3.5.7 V-type plough scraper on return belt before take up: Bidder to confirm.

3.6.0 Intermediate structure consisting of below mentioned components as detailed at Sr.No.5.6.0.0(5.6.1.0 to 5.6.8.6)

3.6.1 Stringers: Bidder to confirm.
3.6.2 Stools: Bidder to confirm.
3.6.3 Idler frames and brackets for carrying impact and transition idlers: Bidder to confirm.
3.6.4 Idler brackets for return idlers: Bidder to confirm.
3.6.5 Carrying idlers: Bidder to confirm.
3.6.6 Return idlers : Bidder to confirm.
3.6.7 Impact idlers : Bidder to confirm.
3.6.8 Decking plates as specified at Sr.No.5.7.0.0 : Bidder to confirm.
3.6.9 Protective guards/fences as specified at Sr.No.5.9.0.0 : Bidder to confirm.

3.10.0 Accessories mentioned below as detailed at Sr.No.5.10.0.0 (5.10.1.0 to 5.10.3.5)
3.10.1 Pull cord switches : Bidder to confirm.
3.10.2 Belt Sway switches : Bidder to confirm.
3.10.3 Pre-start Audio-visual warning alarm. : Bidder to confirm.
3.11.0 Required No. of fasteners : Bidder to confirm.

NOTE :- Belting is not included in the scope of supply.

4.0.0.0 GENERAL REQUIREMENTS :
4.1.0.0 Modular construction -
4.1.1.0 The various components/ Assemblies have to be capable of dismantling transport and easy reassembly
4.1.2.0 It should be possible to take out and refit the components/assemblies without dismantling adjacent unit.
4.2.0.0 Flexibility -
4.2.1.0 The design of the drive head and other equipment shall be flexible so that they can be adopted to different mine conditions.
4.2.2.0 The motor/Gear boxes shall be capable of being mounted on either the LH side or RH side depending upon the space available in underground.
4.3.0.0 High reliability -
4.3.1.0 The conveyors will have to be well designed and precision manufactured so that a trouble free service with a minimum of maintenance is guaranteed.

5.0.0.0 DETAILED SPECIFICATION :-
5.1.0.0 DRIVE HEAD ASSEMBLY:
5.1.1.0 Design configuration : As per enclosed sketch
5.1.2.0 Drive Head Frame : Shall be made of heavy structured steel sections
5.1.3.0 Drive Pulleys & Shaft : Both the drums of drive head should be lagged by 15 mm F.R.Sheet & solution
5.1.3.1 Drum Dia : 800 mm
### 5.1.3.2 Drum width
1400mm

### 5.1.3.3 Shell thickness
: 20 mm.

### 5.1.3.4 Dia of Shaft at bearing seating
: Bidder to confirm

### 5.1.3.5 Shaft material
: Bidder to confirm

### 5.1.4.0 Snub Pulley & Shaft
Applicable in case the drive configuration (Clause No. 2.5.0) is Snub

<table>
<thead>
<tr>
<th>5.1.4.1</th>
<th>Drum dia</th>
<th>: 550 mm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.4.2</td>
<td>Drum width</td>
<td>1400mm</td>
</tr>
<tr>
<td>5.1.4.3</td>
<td>Shell thickness</td>
<td>12 mm.</td>
</tr>
<tr>
<td>5.1.4.4</td>
<td>Dia of shaft at bearing seating</td>
<td>Bidder to confirm</td>
</tr>
<tr>
<td>5.1.4.5</td>
<td>Wrap angle for Snap drive</td>
<td>Not less than 210°</td>
</tr>
<tr>
<td>5.1.5.0</td>
<td>Bearing blocks</td>
<td>:</td>
</tr>
<tr>
<td>5.1.5.1</td>
<td>Material of construction</td>
<td>Cast steel</td>
</tr>
<tr>
<td>5.1.5.2</td>
<td>Type</td>
<td>Heavy duty</td>
</tr>
<tr>
<td>5.1.5.3</td>
<td>Bearings</td>
<td>Heavy duty self aligning spherical roller bearings</td>
</tr>
</tbody>
</table>

### 5.1.5.0 Bearing blocks
5.1.5.1 Material of construction : Cast steel
5.1.5.2 Type : Heavy duty
5.1.5.3 Bearings : Heavy duty self aligning spherical roller bearings.

### 5.1.6.0 Equalizing Gears:
( For Dual- tandem/tandem drive )

<table>
<thead>
<tr>
<th>5.1.6.1</th>
<th>Material of construction</th>
<th>Bidder to confirm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.6.2</td>
<td>Type of gear</td>
<td>Spur</td>
</tr>
<tr>
<td>5.1.7.0</td>
<td>Gear Boxes</td>
<td></td>
</tr>
<tr>
<td>5.1.7.1</td>
<td>Type of gear box</td>
<td>Helical, Input shaft should be of spline type with minimum 3 stage reduction</td>
</tr>
<tr>
<td>5.1.7.2</td>
<td>Mounting</td>
<td>Foot mounted</td>
</tr>
<tr>
<td>5.1.7.3</td>
<td>Service factor to be considered for selection</td>
<td>1.6 over motor rating</td>
</tr>
<tr>
<td>5.1.7.4</td>
<td>Cooling</td>
<td>Oil cooled (Natural)</td>
</tr>
<tr>
<td>5.1.7.5</td>
<td>No. of stages</td>
<td>Bidder to indicate</td>
</tr>
<tr>
<td>5.1.7.6</td>
<td>Make</td>
<td>Bidder to indicate the makes offered [Acceptable makes : Elecon/Greaves/FGM/New Allenbury Works/Any other Proven make in CIL/other PSUS/Govt departments(see Sl.No.7.4.0)]</td>
</tr>
</tbody>
</table>

### 5.1.7.7 Type of anti roll back device
: Bidder to indicate.

### 5.1.8.0 Fluid coupling
:

| 5.1.8.1 | Type of fluid coupling | Fire resistant fluid/ acqua filled fluid coupling. One side of fluid coupling should be of spline type suited to gear box input shaft and other side should be of Jaw type or Pin/Bush |

<table>
<thead>
<tr>
<th>5.1.8.2</th>
<th>Make</th>
<th>:</th>
</tr>
</thead>
</table>
5.1.8.2 Material of Body: Steel/Iron Body
5.1.8.3 Operating Fluid: Bidder to indicate the makes offered. [Acceptable makes: Pembril/Fluidomat/Voith/Any other/Proven make in CIL/other PSUs/Govt. deptt. [see Cl.7.4.0]]
5.1.8.4 Make & Model: Bidder to indicate the makes offered.
5.1.9.0 Output coupling: Flange type with bush & bolt arrangement or Jaw Type with rubber Spider.
5.1.9.1 Type of coupling: 1.25 over motor rating
5.1.9.2 Service factor to consider for selection: 1.25 over motor rating
5.1.9.3 (a) Make and Model: Bidder to indicate
(b) Material: Bidder to indicate
5.1.10.0 Motors: Sq. Cage Induction
5.1.10.1 Type: Dual Voltage 550V & 1100 V (+) or (-) 10% 3 phase, 50 Hz, FLP, DGMS Approved.
5.1.10.2 Operating Voltage System: Bidder to confirm
5.1.10.3 K.W. rating: 2 times full load torque
5.1.10.4 Minimum starting torque: 1500
5.1.10.5 Motor RPM(Syn.): S-1 as per IS:325/1996
5.1.10.6 Class of Duty: Star Delta
5.1.10.7 Type of starting: Class F with temp. rise limited to Class B
5.1.10.8 Class of insulation: Bidder to confirm
5.1.10.9 Type of Enclosure: T E F C
5.1.10.10 FLP/NFLP: FLP
5.1.10.12 In case of FLP, the enclosure shall be approved by DGMS for use in U/G Mines: Mandatory
5.1.10.13 Frame size: Bidder to confirm
5.1.10.14 Mounting of motor: Foot mounted [B3 as per IS:2253-74]
5.1.10.15 Cable Entry: Plug and socket type to be supplied along with Motors.
5.1.10.16 Standard specifications: For FLP- IS:3682-1996
5.1.10.17 Make: Bidder to indicate the make offered [Acceptable make: Alstom/KEC/BB/ABB/Crompton/Siemens /NGEF/ BHEL/Any other Proven make in CIL/Other PSUs/Govt. Deptt (see Cl.7.4.0)]
5.2.0.0 STARTER: Star Delta
5.2.1.0 Type: Dual Voltage 550V & 1100 V (+) or (-) 10% 3 Ph,
5.2.3.0 K.W. rating : Bidder to indicate (Suitable for the motors)

5.2.4.0 CONSTRUCTION
5.2.4.1 In two compartments : Bidder to confirm
5.2.4.2 One shall house through going bus bars and off load isolator
Ratings of bus bar and isolator : 400A
5.2.4.3 IInd shall house contactors and protective
5.2.4.4 Door of IInd compartment shall be interlocked with isolator in such a way that the door can be opened only when the isolator is in ‘OFF’ position

Bolt less door both way isolator and provision of interlock with door safety gears- O/L, S/C and F/L preferable Solid State

5.2.4.5 Cable terminal boxes with sealing boxes shall be provided for both in coming & out going terminals suitable for PVC, DWA Mining Cables of required size. Cable terminal boxes are of adaptor and half coupler type with pin & socket.

5.2.4.6 Through going terminals of bus bar shall be provided with bus trunking box with blanking cover

5.2.4.7 Four nos. auxiliary terminals (4x2) with terminals box and cable sealing boxes suitable for Twin core 2.5 Sq.mm.PVC SWA cable shall be provided for sequence starting, Pull cord switch and pre-start alarm circuits.

5.2.4.8 Type of Enclosure (FLP) : FLP
5.2.4.9 Degree of protection (For NFLP) : Not required
5.2.4.10 In case of FLP, the enclosure shall be approved by the DGMS for use in UG Coal
5.2.4.11 Mounting: Skid mounted

5.2.5.0 Utilisation category: AC3 of IS:13947(Part 4/Sec.1)-1993

5.2.6.0 Nominal current rating of contactors (for AC-3 heavy duty): Not less than 2.0 times the full load current of motor

5.2.7.0 Operating limits of contactor: Shall be as per IS:13947, however the drop out voltage shall not be more than 50% of rated control supply voltage.

5.2.8.0 PROTECTION:

5.2.8.1 Over load protection: Static type overload.

5.2.8.2 Earth leakage protection: Earth leakage Relay based on restricted neutral System of Supply having test and reset facility from outside with indicators.

Current setting: 50m Amp to 250 m Amp with clearance time less than 200 M.S in a step of 50,80,100 ,150,200 and 250 m Amps with time lag between 0 to 1 sec in a step of 100 M.S

5.2.8.3 Short Circuit protection: 0-1 sec in steps of 0.1 sec or 0.2 sec.

5.2.8.4 Suitable provision should be made in the starter for sequence starting interlock with other starter with timer.

5.2.8.5 The starter shall have provision for interlocking with pull cord switches (Sr.No.5.7.1.0) belt sway switches (Sr.No.5.7.2.0), Audio-Visual alarm (Sr.No.5.7.3.0) and limit switches at tail end (Sr.No.5.4.6.1)

5.2.9.0 Instrument: Amp Meter of suitable range


5.2.11.0 Make of Starter (Acceptable make): Bidder to indicate the make offered

5.2.12.0 Make of contactors (Acceptable makes): Bidder to indicate

5.3.0.0 Delivery Jib Assembly: Made of heavy structure Section, Centilever Supported hinged with Drive Head frame with
heavy vertical support at Gib Drum and the entire length of the Gib at the interval of 2 Mtrs

5.3.2.0 Length of Jib : 25 meters

5.3.3.0 Discharge Pulleys and shaft:- Bidder to Confirm
   i) Dia:- 650 mm
   ii) Drum Width:- 1400 mm
   iii) Shell Thickness:- 16 mm

5.3.4.0 Bearing blocks : Same as Cl.no.5.1.5.0

5.3.5.0 BELT SCRAPER
5.3.5.1 Type of belt scraper : Counter weighted/spring loaded
5.3.5.2 Rubber strip dimensions : 10 mm thick x 100 mm wide
5.3.5.3 Rubber strip shall be fixed to the scraper by means of slotted holes to facilitate easy adjustment : Bidder to confirm.

5.4.0.0 TAIL END ASSEMBLY :
5.4.1.0 Structure : Shall be made of heavy structural sections
5.4.2.0 Tail pulley and shafts : Same as clause No.5.1.4.0
5.4.3.0 Bearing blocks : Same as clause No.5.1.5.0
5.4.4.0 Minimum ground clearance below tail pulley : 300 mm

5.4.5.0 BELT SCRAPER ON RETURN BELT BEFORE TAILS DRUM:
5.4.5.1 Type of Belt Scraper : V-type plough scraper

5.4.6.0 WIPER CUM DUST COLLECTOR :
5.4.6.1 A wiper cum dust collector trolley shall be provided at the tail end as per DGMS(Tech)Circular No.4 dated 11.05.2004, a copy of which is enclosed : Bidders to confirm.

5.5.0.0 TAKE UP ASSEMBLY : Length:- 18 mtr
a) Trunk Belt
5.5.1.0 Type of Take up : Horizontal, Motorised Winch for tensioning of belt with automatic brake system provided with 5/8” flexible rope and drum capacity of 50 mtr rope length=18 Mtr
5.5.2.0 Structure of trolley and trolley : Suitable structural sections
5.5.3.0 Take up Pulley, diversion pulley and shafts.
      : Same as clause No.5.1.4.0.

5.5.4.0 Bearing blocks
      : Same as clause No.5.1.5.0

5.5.5.0
a)Operational
      : Motorised with suitable starter

b) A suitable motor with operating Voltage 550/1100 Dual System provided with plug and socket system cable entry box
      : Bidder to confirm

B) Gate Belt Conveyor
      : Length: 30 Mtr.

Type of take up
      Horizontal, Motorised Winch for tensioning of belt with automatic brake system. Take up system should be of multi loop system for atleast 100 mtr belt storage capacity provided with 5/8” flexible rope and drum.

Operation

A suitable motor with operating Voltage 550/1100 Dual System provided with plug and socket system cable entry box
      : Motorised with suitable starter
      : Bidder to confirm

5.6.0.0 INTERMEDIATE STRUCTURES

5.6.1.0 STRINGERS

5.6.1.1 Stringer length
      : 3 meters.

5.6.1.2 Stringer section
      : I SCM 125 X 65

5.6.1.3 Connecting bracing
      : ’Not required

5.6.1.4 Size of fasteners
      : M – 16

5.6.2.0 STOOLS

5.6.2.1 Height of stool
      : 600 mm

5.6.2.2 Steel section
      : I SCM 125 X 65

5.6.2.3 Steel section to be used for bracing for stools
      : ISA 50 X 50 X 6

5.6.2.4 Size of fasteners
      : M – 16

5.6.3.0 CARRYING IDLER SETS

5.6.3.1 Spacing
      : 1.5 m

5.6.3.2 Troughing angle
      : 30 deg.

5.6.3.3 Forward tilt of side idlers
      : 2 deg(max.)

5.6.3.4 Steel section to be used for idler
      : M.S. flat 65 x 10 or ISLC 75 X 40
<table>
<thead>
<tr>
<th>Section</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6.3.6</td>
<td>Carrying idler: Shall conform to enclosed Specification no 139071-2004</td>
</tr>
<tr>
<td>5.6.3.7</td>
<td>Thickness of mounting base plate: 10 mm</td>
</tr>
<tr>
<td>5.6.3.8</td>
<td>Provision for belt training: Mounting base plates shall be provided with 50mm slotted holes to facilitate belt training</td>
</tr>
<tr>
<td>5.6.3.9</td>
<td>Size of fasteners: M – 16</td>
</tr>
<tr>
<td>5.6.4.0</td>
<td>RETURN IDLERS:</td>
</tr>
<tr>
<td>5.6.4.1</td>
<td>Spacing: 3 M</td>
</tr>
<tr>
<td>5.6.4.2</td>
<td>Brackets: Shall be bolted to stools or stringers</td>
</tr>
<tr>
<td>5.6.4.3</td>
<td>Thickness of plate used for brackets: 10 mm</td>
</tr>
<tr>
<td>5.6.4.4</td>
<td>Size of fasteners to be used: M – 16</td>
</tr>
<tr>
<td>5.6.4.5</td>
<td>Return idler: Shall conform to enclosed Specification no 139071-2004</td>
</tr>
<tr>
<td>5.6.5.0</td>
<td>IMPACT IDLER SETS:</td>
</tr>
<tr>
<td>5.6.5.1</td>
<td>Location: In the loading section at tail end</td>
</tr>
<tr>
<td>5.6.5.2</td>
<td>Spacing: 0.5 M</td>
</tr>
<tr>
<td>5.6.5.3</td>
<td>No. of idler Sets: 4 Sets.</td>
</tr>
<tr>
<td>5.6.5.4</td>
<td>Impact . idler roller: Shall conform to enclosed Specification no 139071-2004</td>
</tr>
<tr>
<td>5.6.6.0</td>
<td>TRANSITION IDLER SETS:</td>
</tr>
<tr>
<td>5.6.6.1</td>
<td>Location: At delivery jib and Tail end</td>
</tr>
<tr>
<td>5.6.6.2</td>
<td>No. of idler sets: 3 sets</td>
</tr>
<tr>
<td>5.6.6.3</td>
<td>Troughing angles: 5 deg. 10 deg. 20 deg.</td>
</tr>
<tr>
<td>5.7.0.0</td>
<td>DECKING PLATES:</td>
</tr>
<tr>
<td>5.7.1.0</td>
<td>Thickness of Plate: Not less than 1.5 mm</td>
</tr>
<tr>
<td>5.7.2.0</td>
<td>Location: At drive head, loop take up and loading section</td>
</tr>
<tr>
<td>5.7.3.0</td>
<td>Total length: Sufficient to cover the above sections</td>
</tr>
<tr>
<td>5.8.0.0</td>
<td>SKIRT PLATES:</td>
</tr>
<tr>
<td>5.8.1.0</td>
<td>Location: For loading section on both sides of belt</td>
</tr>
<tr>
<td>5.8.2.0</td>
<td>Thickness of Plate: Not less than 6 mm</td>
</tr>
<tr>
<td>5.8.3.0</td>
<td>Length: 6 Meters (Min.)</td>
</tr>
<tr>
<td>5.8.4.0</td>
<td>Height of plate: Not less than 600 mm above belt</td>
</tr>
<tr>
<td>5.8.5.0</td>
<td>Rubber strip dimensions: 10 mm thick x 100 mm wide</td>
</tr>
<tr>
<td>5.8.6.0</td>
<td>Rubber strips shall be fixed to the skirt plate by means of slotted holes to facilitate easy adjustment: Bidder to confirm.</td>
</tr>
</tbody>
</table>
5.9.0.0  **PROTECTIVE GUARDS/FENCES**  :  
Suitable protective guards/Fencing shall be provided at all rotating parts at drive head, discharge point, tail end etc. 

Bidder to confirm.

5.10.0.0  **ACCESSORIES**  :

5.10.1.0  **Pull Cord Switches**  :

5.10.1.1  Type of switches  :  Manual reset type

5.10.1.2  Enclosure  :  FLP, DGMS approved

5.10.1.3  Spacing  :  30 m on one side(approx)

5.10.1.4  Required Nos.  :  As per Annexure “A”

5.10.1.5  Pull rope  :  Stranded and PVC sheathed

5.10.1.6  Make(ACCEPTABLE MAKE)  :  Any DGMS APPROVED MAKE

5.10.2.0  **BELT SWAY SWITCHES**  :

5.10.2.1  Type of switch  :  Auto reset type

5.10.2.2  Enclosure  :  FLP, DGMS approved

5.10.2.3  Spacing  :  30 m on both sides

5.10.2.4  Required Nos.  :  As per annexure A

5.10.2.5  Make (Acceptable make)  :  Bidder to indicate (Any DGMS APPROVED MAKE)

5.10.3.0  **Audio Visual Alarm**  :

5.10.3.1  Type  :  Intrinsically safe audio visual alarm with pre start warning(compact unit) should be operative maximum up to 30 V AC with single or double source of supply(550V/30V Transformer)

5.10.3.2  Enclosure  :  FLP, DGMS APPROVED

5.10.3.3  Spacing  :  50 M

5.10.3.4  No. of units required  :  As per annexure A

5.10.3.5  Make (Acceptable make)  :  Bidder to indicate (ANY DGMS APPROVED MAKE)

5.10.3.6  a) Automatic water spraying arrangement systems should be provided at the discharge point in each belt to suppress coal dust  

b) Audio communication should be provided at the discharge end and T/E of each belt  

Bidder to confirm

6.0.0  **PRE-DESPATCH INSPECTION AND TESTS** :

6.1.0  The belt conveyors will be inspected by BCCL’s representative/third party inspection agency at manufacturer’s works before despatch of the equipment to ascertain the conformity of the conveyors to supply order specifications, relevant ISS, statutory regulations(DGMS approval for FLP Electricals) and type test
6.2.0 Testing of assemblies/components, wherever required will be carried out by the inspector as per the relevant standards and supply order. The manufacturer shall make available to the inspector, the required test facilities with necessary support for conducting the tests.

6.3.0 The manufacturer shall make available to the inspector the following documents during the inspection.
   a) Copies of relevant ISS
   b) All records of quality checks as per QAP.
   c) Dimensional/manufacturing drawings of different assemblies/components of the conveyors.
   d) Invoices in respect of purchase of raw-materials viz. Steel, bearings, tubes (for rollers) etc, and bought out items.
   e) Manufacturer’s test certificates in respect of raw-materials and bought out items.
   f) Copies of valid DGMS Approvals for the FLP Electricals (Motor, Starter, Pull Card Switch, Belt Sway Switch & Audio-visual alarms)
   g) Copies of valid CMRS/ERTL Test reports for FLP STARTER ALONG WITH DIMENSIONAL DRAWING (REFERRED IN THE TEST REPORT)
   h) Copies of type test certificates from CPRI for contactors used in the starters as per IS:13947{Part-4/Sec.1}-1993.

7.0.0 DOCUMENTS TO BE SUBMITTED WITH THE OFFER:

7.1.0 Self certified copies of G.A. drawings (Ammonia prints) with Dimensions and weights for .............

   7.1.1 Complete conveyor.
   7.1.2 Drive Unit Assembly.
   7.1.3 Delivery jib Assembly.
   7.1.4 Take up Assembly.
   7.1.5 Tail end Assembly.
   7.1.6 Intermediate structures and idler Sets.
   7.1.7 Assembly drawing of idler showing the internals.
   7.2.0 Self certified copies of supply orders received for underground belt conveyors of tendered and higher capacity from CIL/Subsidiaries of CIL/other PSUs/Govt. departments.
   7.3.0 Technical leaflets/literature in respect of all the bought outs.

   7.4.0 Self certified copies of past supply orders from CIL/Subsidiaries of CIL/other PSUs/Govt. departments for gear boxes, fluid couplings, motors and starters in support of their provenness, in case any make other than those specified at relevant clauses. (Sr.No.5.1.7.6,5.1.8.4,5.1.10.17 and 5.2.11.0) are offered.

8.0.0 DOCUMENTS TO BE SUBMITTED ALONG WITH EQUIPMENT:

8.1.0 Certified copies of valid DGMS Approval letters for Motors, Starter, Pull Cord
Switch, Belt Sway Switch and Audio-Visual alarm

8.2.0 Maintenance and parts catalogues of the equipment and all the bought outs.
8.3.0 Assembly drawings showing all the dimensions and weights
8.4.0 Self Certified copies of type test certificates from CPRI for contactors used in the Starter.

ANNEXURE-A

Item No-1 : Trunk Belt conveyors (1200 mm x 500 M)

Item No-2 : Gate belt Conveyor (1200 mm x 1500 M)

<table>
<thead>
<tr>
<th>Sl</th>
<th>Conveyor Data</th>
<th>Item No-1</th>
<th>Item No-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Belt width(mm)</td>
<td>1200</td>
<td>1200</td>
</tr>
<tr>
<td>02</td>
<td>Length of conveyor(M)</td>
<td>500</td>
<td>1500</td>
</tr>
<tr>
<td>03</td>
<td>Belt speed(m/sec)</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>04</td>
<td>Drive configuration</td>
<td>Bidder to confirm</td>
<td>Bidder to confirm</td>
</tr>
<tr>
<td>05</td>
<td>Take-up travel(M)</td>
<td>18</td>
<td>100</td>
</tr>
<tr>
<td>06</td>
<td>Power Rating(KW)550/1100 V dual system,FLP</td>
<td>Bidder to confirm</td>
<td>Bidder to confirm</td>
</tr>
<tr>
<td>07</td>
<td>Type of Enclosure</td>
<td>FLP</td>
<td>FLP</td>
</tr>
<tr>
<td>08</td>
<td>Operation of take-up(motorized winch system)</td>
<td>Motorized winch system</td>
<td>Motorized winch system</td>
</tr>
<tr>
<td>09</td>
<td>No. of Full cord switch(FLP)</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>10</td>
<td>No. of Audio video alarm(FLP)</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>11</td>
<td>No. of sets required</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>Lift</td>
<td>60 mtrs</td>
<td>20 mtrs</td>
</tr>
<tr>
<td>13</td>
<td>Capacity in TPH</td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td>14</td>
<td>No. of Belt sway switch(FLP)</td>
<td>34</td>
<td>34</td>
</tr>
<tr>
<td>SR.NO.</td>
<td>DESCRIPTION/ CLAUSE</td>
<td>BIDDER TO INDICATE ( YES / NO )</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>---------------------</td>
<td>---------------------------------</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Acceptance for Environmental/Operating conditions as specified at Sr.No.1.1 to 1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Acceptance for basic parameters as specified at Sr.No. 2.1 to 2.4.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Acceptance for Materials and Constructional details as specified at Sr.No.3.1.0 to 3.8.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Acceptance for painting as specified at Sr.No. 4.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Acceptance for Identification marking as specified at Sr.No.5.0</td>
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<td></td>
</tr>
<tr>
<td>6.</td>
<td>Acceptance for testing as specified at Sr.No.6.0</td>
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<td></td>
</tr>
<tr>
<td>7.</td>
<td>Acceptance for Life guarantee as specified at Sr.No.7.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Acceptance for pre-despatch inspection as specified at Sr.No.8.1 to 8.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Information/details asked for at Sr.No. 3.5.2, 3.5.3 and 3.8.2 to be submitted.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Copies of supply orders received in the past from CIL/subsidiaries of CIL/other PSUs/Govt. departments for conveyor rollers of similar or higher Sizes to be submitted as specified at Sr.No. 9.1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Copies of test certificates for the tests specified at Sr.No.6.0 conducted on the rollers manufactured and supplied in the past, to be submitted as specified at Sr.No.9.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>General arrangement/assembly drawing of roller showing the tube, shaft, bearing housing, bearings, seals etc. to be submitted as specified at Sr.No. 9.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Acceptance for submission of documents specified at Sr.No.10.1 and 10.2</td>
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<td></td>
</tr>
<tr>
<td>SR. NO.</td>
<td>DESCRIPTION/CLAUSE</td>
<td>BIDDER TO INDICATE</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
<td>--------------------</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Acceptance for the service conditions as specified at Sr.No.1.0.0(1.1.0 to 1.5.0)</td>
<td>YES/NO</td>
<td></td>
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<td>2.</td>
<td>Acceptance for conveyor data as specified at Sl.No.2.0.0(2.1.0 to 2.9.0)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Acceptance for scope of supply as specified at Sl.No.3.0.0(3.1.0 to 3.8.0)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Acceptance for specifications of drive head assembly as detailed at Sl.No.5.1.0.0(5.1.1.0 to 5.1.10.16)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Acceptance for the general requirements as specified at Sl.No.4.0.0.0(4.1.0.0 to 4.3.1.0)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Acceptance for specifications of starter as detailed at Sl.No.5.2.0.0(5.2.1.0 to 5.2.10.0)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Acceptance for specifications of delivery jib assembly as detailed at Sl.No.5.3.0.0(5.3.1.0 to 5.3.5.3)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Acceptance for specifications of tail end assembly as detailed at Sl.No.5.4.0.0(5.4.1.0 to 5.4.6.1)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Acceptance for specifications for take up assembly as detailed at Sl.No.5.5.0.0(5.5.1.0 to 5.5.5.0)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Acceptance for specifications intermediate structure as detailed at Sl.No.5.6.0.0(5.6.1.0 to 5.6.6.3)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Acceptance for provision of Decking Plates and Skirt Plates as specified at Sr.No.5.7.0.0 and sr.No.5.8.0.0 respectively.</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Acceptance for provision of protective guards/fences at all rotating parts as stipulated at Sr.No.5.9.0.0.</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Acceptance for the specifications of pull cord switches as detailed at Sl.No.5.10.1.0(5.10.1.1 to 5.10.1.5)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>Acceptance for specifications for belt sway switches as detailed at Sl.No.5.10.2.0(5.10.2.1 to 5.10.2.4)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Acceptance for specifications of audio-visual alarm as detailed at sl.No.5.10.3.0(5.10.3.1 to 5.10.3.4)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>Information asked for at sl.No.5.1.7.5,5.1.7.6,5.1.7.8,5.1.9.3,5.1.10.17,5.2.3.0,5.2.8.3,5.2.11.0,5.2.12.0, 5.10.1.6, 5.10.2.5 and 5.10.3.5 to be furnished.</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>Acceptance for pre-despatch inspection and test as specified at Sl.No.5.6.0.0(6.1.0 to 6.3.0)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>Self attested copies of G.A.drawings with dimensions and weights for complete conveyor and different assemblies of conveyor submitted as specified at Sl.No.5.7.0.0(7.1.0 to 7.1.7)</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>Self attested copies of supply orders received in the past for UG belt conveyors of tendered capacity of higher capacity from CIL/Subsidiaries of CIL/other PSUs/Govt.Departments submitted stipulated at Sl.No.7.2.0</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>20.</td>
<td>Technical leaflets/literature in respect of all bought-outs to be submitted as specified at Sl.No.7.3.0</td>
<td>YES/NO</td>
<td></td>
</tr>
<tr>
<td>21.</td>
<td>Acceptance for submission of documents specified at Sl.No.8.0.0 (8.1.0 to 8.4)</td>
<td>YES/NO</td>
<td></td>
</tr>
</tbody>
</table>
SPECIFICATION FOR CONVEYOR ROLLERS

NOTE:
2. TENDERERS ARE REQUIRED TO SUBMIT THEIR TECHNICAL BIDS IN THE FORMAT GIVEN BELOW INDICATING THEIR ACCEPTANCE/REQUIRED INFORMATION IN THE COLUMN 4 AGAINST EACH CLAUSE OF THE SPECIFICATIONS GIVEN UNDER COLUMN 1, 2 AND 3.
3. TENDERERS SHOULD OFFER THE EQUIPMENT STRICTLY AS PER THE SPECIFICATIONS WITHOUT DEVIATIONS.

4. TENDERERS SHOULD ENSURE THAT ALL THE DOCUMENTS SPECIFIED AT CLAUSE NO. 9.0 ARE ENCLOSED WITH THE OFFER WITHOUT FAIL.

<table>
<thead>
<tr>
<th>Sr No.</th>
<th>DESCRIPTION/ PARAMETER</th>
<th>VENDOR TO CONFIRM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Environmental / operating conditions :</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Place of use</td>
<td>Coal Mines(Both at Surface &amp; U/G)</td>
</tr>
<tr>
<td>1.2</td>
<td>Temperature(Max.)</td>
<td>50 deg. C</td>
</tr>
<tr>
<td>1.3</td>
<td>Humidity(Max.)</td>
<td>98%</td>
</tr>
<tr>
<td>1.4</td>
<td>Atmosphere</td>
<td>Dusty(Mostly coal dust) and watery</td>
</tr>
<tr>
<td>1.5</td>
<td>Conveyor speed(Max.)</td>
<td>2.5M/Sec</td>
</tr>
<tr>
<td>2.0</td>
<td>BASIC PARAMETERS</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>Type of roller</td>
<td>Drop in type, greased for life (Mantenance free)</td>
</tr>
<tr>
<td>2.2</td>
<td>Friction co-efficient</td>
<td>Not more than 0.015</td>
</tr>
<tr>
<td>2.3</td>
<td>Run out / Eccentricity</td>
<td>As per clause 4.5 of IS:8598</td>
</tr>
</tbody>
</table>

2.4.0 Dimensional / Details :

2.4.1 Top roller (Troughing roller): As per the drawing given in annexure A.

2.4.2 Bottom roller (Return roller): As per the drawing given in Annexure A

2.4.3 Impact roller: As per the drawing given in Annexure II

3.0 MATERIALS AND CONSTRUCTIONAL DETAILS :-

3.1.0 Barrel / Tube :

3.1.1 Material of barrel: Steel tube conforming to Grade yst 210 of IS:9295 - 1983.

3.1.2 Boring of the pipe: The pipe shall be bored on double ended boring machine, capable of simultaneous boring of both ends in a
single setting to maintain coaxiality.

### 3.2.0 BEARING HOUSING :-

#### 3.2.1 Material of bearing housing
Pressed sheet metal housing drawn in CRCA Sheets of extra deep drawing quality.

#### 3.2.2 Nominal thickness of CRCA Sheet
3.15 mm (Min.)

#### 3.2.3 Wall thickness of housing after stamping & machining
Not less than 2.5 mm

#### 3.2.4 Machining Tolerance for housing
The housing shall be finished to M7 (Min) as per IS: 919 for accommodating the outer race of the bearing.

#### 3.2.5 Welding of bearing housing
The bearing housings shall be welded to the pipe by Twin bead MIG/MAC CO welding machine capable of welding the housing at both ends simultaneously in a single setting.

### 3.3.0 SHAFT :

#### 3.3.1 Material of shaft
Carbon steel conforming to C-40 of IS 1570 of En-8A of BS: 970

#### 3.3.2 Machining tolerance of shaft
The shaft shall be machined and ground to J6 (Min.) as per IS: 919 at bearing seatings, maintaining coaxiality of both ends.

#### 3.3.3 Shaft ends
Type ‘A’ as per IS: 8598-1987

### 3.4.0 BEARINGS :

#### 3.4.1 Type of bearings
Seize resistant ball bearings.

**NOTE**

For rollers of shaft dia above 30 mm, single row deep groove ball bearing of C3 clearance is also acceptable.

#### 3.4.2 Acceptable make of bearings
SKF/NBC/ABL/FAG/GRB/JBL
3.5.0 **LUBRICATION**:

4.5.1 Lubricant : Lithium based grease with a worked penetration of 220-250, class 3.

3.5.2 Make / brand of grease : Bidder to indicate

3.5.3 Quantity of grease : Bidder to indicate.

3.6.0 **SEALING**:

3.6.1 Type of seal : Non contact, Multi Lip labyrinth seal (Fire resistant) certificate

3.6.2 Material of seal : Neoprene, Nylon-6 or any other better material

3.6.3 Back / Inner seal : Nylon - 6 or any other suitable material (bidder to indicate the material)

3.6.4 Dust seal and rain cap : Suitable material (Bidder to indicate the material)

3.6.5 The sealing is to be done for the life time of the bearing : Bidder to confirm

3.7.0 Assembly of roller : The bearings and seals shall be press fitted on the roller

3.8.0 **RUBBER RINGS FOR IMPACT ROLLER**

3.8.1 Shore hardness of rubber : 50 - 60 deg. On shore ‘A’ scale

3.8.2 Thickness and No. of rings : Bidder to indicate

4.0 **PAINTING**

The surface of the rollers shall be cleaned properly, removing rust, oil film etc. and one coat of anti rust paint to be given. Over this another coat of good quality paint of smoke grey : Bidder to indicate.
colour shall be given.

5.0 IDENTIFICATION MARKING:
Manufacturer’s name/trade mark, month and year of manufacturer shall be permanently and legible marked on the roller, by etching/embossing which should last for the life of roller: Bidder to confirm.

6.0 TESTING:
The following tests shall be conducted on completed rollers at appropriate frequencies in the production batch: Bidder to confirm.
   a) Friction co-efficient test
   b) Dimensional check up and Run out/essentricity test.
   c) Dust sealing test.
   d) Water proofness test
   e) Fire Resistent test of seal

7.0 GUARANTEE
Complete roller shall be guaranteed for a working life not less than 25000 hours: Bidder to confirm.

8.0 PRE-DESPATCH INSPECTION
8.1 The rollers will be inspected by BCCL’s representative/third party inspection agency at the manufacturer’s works before dispatch of the consignments to ascertain the conformity of the rollers to supply order specifications and relevant ISS.

8.2 The manufacturer shall make available to the inspector, the required test facilities with necessary support for conducting the inspection and test as per the order specifications and relevant ISS.

8.3 Samples for the tests will be drawn from the lots (size wise) by random sampling methods. The sample size for the tests will be as follows.
<table>
<thead>
<tr>
<th>TEST</th>
<th>SAMPLE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot size: upto 1000 above 1000 upto 2000</td>
<td></td>
</tr>
<tr>
<td>1. Dimensional check up including measurement &amp; run out / eccentricity</td>
<td>5 Nos 8 Nos.</td>
</tr>
<tr>
<td>2. Friction co-efficient</td>
<td>2 Nos. 4 Nos.</td>
</tr>
<tr>
<td>3. Dust penetration and measurement of dia of shaft (at middle ) and thickness of tube and bearing housing etc.</td>
<td>2 Nos. 3 Nos.</td>
</tr>
<tr>
<td>4. Water penetration</td>
<td>2 Nos. 3 Nos.</td>
</tr>
</tbody>
</table>

For lot sizes above 2000, the sample size will be decided on pro-rata basis.

8.4 The manufacturer shall make available to the inspector the following documents during the inspection.
   a) Copy of supply order
   b) Copies of relevant ISS.
   c) Test methods.
   d) Works test certificates.
   e) Invoices in respect of purchase of bearings, tubes and bars (for shaft) etc.
   f) Manufacturer’s test certificates in respect of raw materials.

9.0 DOCUMENTS TO BE SUBMITTED WITH THE OFFER

9.1 Self attested copies of supply orders received in the past from CIL/Subsidiaries of CIL/other PSUs/Govt. Depts for conveyor rollers of similar or higher sizes.

9.2 Self attested copies of test certificates for the tests specified at clause No. 6.0 conducted on the rollers manufactured and supplied in the past.

9.3 Technical leaflets if any.

9.4 General arrangement/assembly drawing of the roller showing distinctly the tube, shaft, bearing housing, bearings, and seals etc.

10.0 DOCUMENTS TO BE SUBMITTED WITH CONSIGNMENTS:

10.1 Pre-despatch inspection and test report.

10.2 General arrangement/assembly drawing of the roller showing distinctly the tube, shaft, bearing housing, bearings, seals etc.

10.3 Technical leaflets if any.
### ITEM DESCRIPTION

**CONVEYOR SYSTEM CONSISTING OF FOLLOWING CONVEYORS**

(a) **Trunk Belt Conveyor** – :- **08 SET**

( Drive head with Motorised lop take up, 500 mtr structure and idlers (for each set) with suitable gear box, electric motors and starters, Lift- 60 mtrs, Speed – 2.5 m/s, length – 500 mtrs, Conveyor Size – 1200 mm, TPH -800.)

(b) **Gate Belt Conveyor** – :- **01 SET**

(Drive head with Motorised loop take up of multi loop system for 100 m approx. belt storage capacity. Discharge and tail end arrangement, 1500 mtrs. structures and idlers with suitable gear box, electric motors and starters.Lift 20M Speed – 2.5 m/s, Length – 1500 mtrs, Conveyor size – 1200 mm, TPH-800

**NB:** Detailed technical specification are given in Anenxure I & II along with drawing of Belt Structures, Idlers and Mine Plan.

N.B:-

The Bidders are required to submit the composite price only (on single package basis ) for the above 8 set of Trunk Belt Conveyor and 01 set of Gate Belt Conveyor

### YOU PLEASE CONFIRM FOLLOWING ADDITIONAL CHECK LIST FOR COMMERCIAL TERMS ALONG WITH YOUR TENDER.

<table>
<thead>
<tr>
<th>Commercials Terms as per NIT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Submission of original Tender specific authorization from your Manufacturer/Principal, if Tenderer is a dealer</td>
<td>To be submitted</td>
</tr>
<tr>
<td>2. Security-Money(Exemption allowed for State/Central Govt. Organization /PSU&amp; DGS&amp;D/NSIC registered for tendered items, Notarised copy of registration is required.</td>
<td>To be submitted</td>
</tr>
<tr>
<td>3 Submission of Notary certified copy of valid registration of BIS/DGS&amp;D/DGMS/NSIC etc if Manufacturer</td>
<td>To be submitted</td>
</tr>
<tr>
<td>4(a). Pl confirm that price in your price bid is given” with break up in following head:-</td>
<td>Confirmation required (Without quoting Price) whether offer submitted by you covers the price break up as given at sr no 4(a)</td>
</tr>
<tr>
<td>c) EX works price,</td>
<td></td>
</tr>
<tr>
<td>d) Freight &amp; Insurance,</td>
<td></td>
</tr>
<tr>
<td>e) P&amp;F charges</td>
<td></td>
</tr>
<tr>
<td>f) ED if applicable</td>
<td></td>
</tr>
<tr>
<td>g) Sales Tax.</td>
<td></td>
</tr>
<tr>
<td>5 . Acceptance of Jurisdiction of Dhanbad Court and Jharkhand High Court in case of any legal dispute.</td>
<td>To be agreed</td>
</tr>
<tr>
<td>6. For Imported items price will be on FOR Delivery port and must be firm. (Discount against FOB price attracts custom duty etc.) Pl. confirm the chapter no of custom duty under which item is covered along with rate of custom duty and counter veiling duty.</td>
<td>To be agreed</td>
</tr>
<tr>
<td>7. Delivery Clause</td>
<td>To be Indicated with prefixing of word</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>8. Submission of Performance Bank Guarantee</td>
<td>To be agreed</td>
</tr>
<tr>
<td>9. Acceptance of Force major clause</td>
<td>To be agreed</td>
</tr>
<tr>
<td>10. Inspection Clause as per NIT</td>
<td>To be agreed</td>
</tr>
<tr>
<td>11. Have you submitted Warrantee/Guarantee as per NIT</td>
<td>To be agreed/Indicated</td>
</tr>
<tr>
<td>12. Please confirm all other commercial terms as per NIT.</td>
<td>To be agreed</td>
</tr>
<tr>
<td>13. Submission of self attested Order copies for NIT Items</td>
<td>To be submitted</td>
</tr>
<tr>
<td>14. Bank Details</td>
<td>To be submitted</td>
</tr>
<tr>
<td>15. Ultimate Consignee</td>
<td>To be agreed</td>
</tr>
<tr>
<td>16. Packing for Transit clause</td>
<td>To be agreed</td>
</tr>
<tr>
<td>17. Have you submitted tender fee or proof of payment of tender fee in part I as indicated in Annexure-B</td>
<td>To be checked</td>
</tr>
<tr>
<td>18. Have you carefully prepared and signed with name &amp; Designation and stamped the company’s seal on all the pages of the tender document.</td>
<td>To be complied</td>
</tr>
<tr>
<td>19. Have you enclosed a blank format of price bid as quoted by you (Without Price) along with your offer with the confirmation that price bid have been carefully prepared and signed on all pages of the price bid.</td>
<td>To be complied</td>
</tr>
<tr>
<td>20. Have you accepted to furnish the import documents from your principal.</td>
<td>To be complied</td>
</tr>
<tr>
<td>21. Have you accepted to furnish certificate along with your offer of your auditor certifying that you have paid customs duty as per prevailing customs rate and refund if any shall be passed on to the buyer.</td>
<td>To be complied</td>
</tr>
<tr>
<td>22. Have you submitted the requisite EMD or have enclosed proper document notarised as per NIT for exemption in submitting EMD.</td>
<td>To be complied</td>
</tr>
<tr>
<td>23. Have you sought any deviation in commercial or technical parameters</td>
<td>To be confirmed</td>
</tr>
<tr>
<td>24. You must confirm your TIN No./PAN./CST No. etc. whichever is applicable.</td>
<td>Must be indicated</td>
</tr>
</tbody>
</table>

NB:- (A) All commercial terms of the NIT schedule must be accepted in toto. In case if you deviate on any of the commercial terms of the NIT, that must be pointed out specifically.
(B) Management reserves the right to increase or decrease the Quantity against any/all the items of the tender by not more than 20% of the tendered Quantity.
(C) In case, if the opening date of tender falls on Holiday or on Saturday, the tender shall be opened at 3 P.M. on immediate next working day.
(D) **Delivery Schedule:** Delivery should start within 5-6 months at the minimum rate of 2 sets per month.
(E) **VENUE OF TENDER OPENING:** --OFFICE OF CGM(MM), KOYLA BHAWAN MM(P)
<table>
<thead>
<tr>
<th>Item</th>
<th>Dwell width</th>
<th>Barrel length</th>
<th>Shaft length</th>
<th>Tube thickness</th>
<th>Nominal dia of tube</th>
<th>Dia of shaft at bearing</th>
<th>Dia of shaft at middle</th>
<th>m</th>
<th>n</th>
<th>f1</th>
<th>f2</th>
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</thead>
<tbody>
<tr>
<td>Feeding roller</td>
<td>800</td>
<td>315</td>
<td>341</td>
<td>5.4</td>
<td>114.3</td>
<td>20</td>
<td>25</td>
<td>4</td>
<td>9</td>
<td>14</td>
<td>18</td>
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<td></td>
<td>900</td>
<td>350</td>
<td>392</td>
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<td>25</td>
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<td>9</td>
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<td>500</td>
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<td>9</td>
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<td>18</td>
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<td>562</td>
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<tr>
<td>Return roller</td>
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<td>950</td>
<td>1032</td>
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<td>1102</td>
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