Dear Sirs

Sub: Notice Inviting Tender for supply of DGMS approved 6.6 KV TSU

1. Sealed tenders are invited in duplicate only from the proven manufacturers or their exclusively authorized sole selling agents to offer against this tender for supply of DGMS approved 6.6 KV TSU to various Areas of BCCL as per detailed specifications enclosed as annexure – A.

FOR SPARE PARTS-

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 ORDER PLACED BY BCCL CO. HQ MAY BE
CONSIDERED IF THE FIRM OBTAINS PROVEN STATUS ON PERFORMANCE BASIS AGAINST SUCH TRIAL ORDERS.

FOR CONSUMABLES-

PROVEN MEANS THOSE MANUFACTURERS OR EXCLUSIVELY AUTHORISED SOLE SELLING AGENTS WHO HAVE SUPPLIED TENDERED ITEM ( S) IN PAST 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 ORDER PLACED BY BCCL CO. HQ MAY BE CONSIDERED IF THE FIRM OBTAINS PROVEN STATUS ON PERFORMANCE BASIS AGAINST SUCH TRIAL ORDERS.

2. Requirement :

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Item description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DGMS approved 6.6 KV / 550 V Transwitch unit</td>
<td>06 Nos (Six)</td>
</tr>
</tbody>
</table>

3. The offers are to be submitted before the closing date and time as mentioned above. Late Tenders will not be considered.

4. Tenders 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 address. Bharat Coking Coal Limited, however, do not take any responsibility for loss of tender in transit. Tender must be received on or before the due date and time of submission of tender. Tender received after due date of submission of the tender shall not be considered. No request for relaxation in this respect will be entertained.

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

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

7. The tender document is divided into the following parts:
   ii) Annexure ‘B’ - Commercial Terms and conditions
   iv) Annexure ‘C’ - Blank format of price bid as to be quoted by the tenderer (without price) for quoted items
   vi) Annexure ‘D’ - Check List with Commercial statement check list.
   vii) Annexure ‘E’ - Format of Integrity pact.

8. ( a ) The offers are to be submitted in four parts. The first part “Part- I i.e. Techno-commercial offer “ should contain the detailed Technical and commercial terms of the offer. In other words it should contain the required details as per annexure A to E as stated at clause 7. 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 price bid should be submitted as per Proforma enclosed as Annexure – “C”. 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 down load 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 COKING 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”.

(d) “Part-IV the intending tenderer must enclose the Integrity Pact format duly signed and stamped in all pages in the Part IV envelope. The envelope shall be sealed , superscribed with tender number and due date of opening and must mark “Part-IV”.

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

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

09. Part - I (Techno commercial Offer), “Part – III” (Tender fee) and “Part – IV ” [ Integrity Pact] will be opened on the due date of tender opening in the office of the CGM(MM) , Commercial Block , L-III , Koyla Bhawan , Dhanbad –826 005 in presence of the authorized representative of the attending bidders

NOTE.

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

b) If tenderer 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.

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 be 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.

11. Earnest Money:

a) An Earnest Money of Rs.540000.00 ( Rs. Five lakh forty thousand only) only 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 accompanies 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.

c) For unsuccessful tenderer , EMD shall be refunded immediately after finalization of the Tender.

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% value 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 order shall be cancelled and the case 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. The earnest money deposit will be refunded to the firm after submission of requisite security deposit.

13. State/Central Govt. Organization /PSU - shall be considered for exemption from submission of EMD/Security money.
Valid DGS&D/NSIC / Ancillary unit of BCCL registered (for tendered items) - shall be considered for exemption from 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/procure 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 AND JHARKHAND HIGH 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 making 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 submitted 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 qty. 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 has been initiated for breach of contract.

(xi) Govt./Undertaking/Ancillary Unit of BCCL for the tendered item, are exempted from paying tender fee.

(xii) Bidders for the items requiring DGMS approval shall have to submit copy of DGMS approval with latest validity extension, if any. They will also submit copy of valid BIS license (if applicable). These documents will also be duly authenticated by the bidders (stamped and signed) and attested by the court of Notary Public.

(xiii) 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.

(xiv) As per Center Vigilance Commission (CVC) guidelines no post tender negotiations may be held except in case of Proprietary purchase or for items with limited sources of supplies (negotiations in such case may be held with L-1/preferred L-1 vendor)

(xv) If L1 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. Similar process of counter offering L-1 rate to L-3 tenderer, L-4 Tenderer and so on and placement of order for their offered quantity subject to matching L-1 rate will continue till the full requirement is covered for supply within the specified delivery period.

IMPORTANT MANDATORY NOTE FOR BIDDERS IN RESPECT OF INTEGRITY PACT DOCUMENTS TO BE SIGNED:

BIDDERS ARE REQUIRED TO SUBMIT INTEGRITY PACT WITH BCCL DULY SIGNED AND STAMPED IN ALL PAPERS AS PER THE FORMAT GIVEN AT ANNEXURE - E IN ANOTHER SEPARATE ENVELOPE CONFIRMING THAT ALL THE TERMS AND CONDITIONS ARE ACCEPTABLE TO THEM, NON-SUBMISSION OF INTEGRITY PACT AMOUNTS TO NON-QUALIFICATION AND NO FURTHER EVALUATION OF OFFER SHALL BE DONE WITHOUT ASSIGNING ANY REASON BY BCCL.

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 FOR EQUIPMENTS

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 of machines ordered and supplied. Specific details should be given regarding the machine supplied and running in India 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) The commercial status of the offers received against this tender shall be determined after off-setting the amount payable towards VAT if applicable for which input credit is admissible to BCCL.

   ix) 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). Refund/Credit, if any, obtained shall be passed on to the buyer which shall be certified by the Auditor of the supplier.

   d) Sales Tax (It will be payable extra as applicable)

   NOTE: - (1) Excise Duty - The legally applicable rate of Excise Duty should be clearly mentioned in the commercial bid (PART I) and the rate and the value in the price bid (PART-II).

   In case the price is stated to be inclusive of excise duty, the current rate included in the price must be indicated. If the tenderer is exempted from paying the excise duty, the same must also be confirmed with valid documentary evidence.

   In case the rate of excise duty varies with the turnover of the company, and the price is exclusive of excise duty, the tenderer shall have to specify the rate applicable to BCCL. If the tenderer fails to specify the exact rate of ED applicable, the maximum rate currently leviable shall be loaded on the price.

   (2) Sales Tax / VAT: The legally applicable rate of Sales Tax / VAT should be clearly mentioned in the commercial bid (PART-I) and the rate and value in the price bid (PART-II).

   (3) 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, price will be on F.O.B. 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. In case of F.O.B price all discount attracts custom duty etc. except trade discount.
iv) In case of imported stores other than direct import by BCCL, the firm should quote FOR destination price in Indian rupees and firm shall give a certificate along with their offer of their Auditors certifying that they have paid Customs and other applicable Duties as per prevailing Customs Rates and refund if any shall be passed on to the buyer.

Additional Requirement where buyer can avail the Project Concessional Custom Duty on the imported contents, you must indicate the following:

a) CIF value of the imported content, if any, both in Indian Rupees and in the specified foreign currency indicating the date of applicable exchange rate and the applicable rate of custom and other duties.

b) Rate of customs duty on imported component taken for computation of the prices - both for project concessional and for the normal rate.

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>7%</td>
</tr>
<tr>
<td>1501Km - 2000 Km</td>
<td>4%</td>
<td>2%</td>
<td>7%</td>
</tr>
<tr>
<td>1001 Km -1500 Km</td>
<td>3%</td>
<td>2%</td>
<td>7%</td>
</tr>
<tr>
<td>501 Km – 1000 Km</td>
<td>2%</td>
<td>2%</td>
<td>7%</td>
</tr>
<tr>
<td>Below 500 Km</td>
<td>1%</td>
<td>2%</td>
<td>7%</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</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>1/2% 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 180 days 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: 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 from the receipt and acceptance of the materials by the consignee or from the date of receipt of bills, whichever is later by the consignee.

b) For imported supplies.

In case of imported items where the price is on FOB basis 100% FOB value will be paid against Letter of credit.

Agency commission will be paid in Indian Rupee only. Clearly indicate the quantum of Agency Commission in the offer, if any. (For imported item where the price is on FOB Basis).

Note - No payment will be made for supply of incomplete supply.

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 supplier, 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.
In absence of above details/information offer may be liable to be considered unresponsive.

9. REQUIRED DELIVERY SCHEDULE:- Bidders are required to quote their best possible delivery schedule clearly indicating period of commencement, period of completion and the rate at which supply shall be made.

   i) 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
   ii) The bidder should be in a position to supply in specific delivery period, if indicated, at least 25% of the total tendered quantity, otherwise offer shall be considered unresponsive.

10. PENALTY FOR FAILURE TO SUPPLY IN TIME:

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 BCCL.
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 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.

11. 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, if any, details given in Technical specification may be referred to.

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

iii) The supplier 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, if any, mentioned in the technical specification.

iv) A Performance Bank Guarantee on Scheduled / Nationalized Bank in India valid for 18 months from the date of receipt and acceptance of material for 10% value of the order (value means FOR destination price including taxes, duties, transportation and insurance charges and other charges, if any) shall have to be submitted to MM Division, BCCL, Kayla Bhawan on or before commencement of supply. PBG may be submitted for the entire order quantity at a time or each equipment wise / lot wise (Format of Performance Bank Guarantee is enclosed herewith as Appendix-I).

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 be taken 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. ERECTION & SUPERVISION (if required as per technical specification)

The supplier shall be responsible for the erection and commissioning at no extra cost to the purchaser within 75 days of receipt of complete equipment at site. However, the purchaser will assist in providing necessary erection tools & tackles etc. and unskilled manpower for this purpose.

14. QUALITY CONTROL MEASURE

The bidder shall furnish details of quality control measures being adopted by him, including any International / Indian standard being followed. The details should include the equipment and personnel employed for this purpose.

15. PRICE FALL CLAUSE:

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 offer to sell the stores of identical description to any other organization from date of offer till completion of supply under the contract.

ii) If at any time during the said period the supplier offers lower sale price of 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, Kayla Bhawan, Kayla 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 clauses.

16. 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.

17. INSPECTION & TESTS.

i) The purchaser or 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) The inspections and tests may be 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 representatives 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)
ANNEXURE “C”

FORMAT FOR PRICE BID

TENDER NO-----------------------------------------------

<table>
<thead>
<tr>
<th>SL NO</th>
<th>DESCRIPTION</th>
<th>U/M</th>
<th>QTY.</th>
<th>BASIC PRICE (EX WORKS)</th>
<th>PACKING &amp; FORWARDING CHARGE</th>
<th>EXCISE DUTY</th>
<th>SALES TAX / VAT</th>
<th>FREIGHT CHARGES</th>
<th>INSURANCE CHARGES</th>
<th>LANDED VALUE</th>
</tr>
</thead>
</table>
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 a 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 180 days offer’s validity period as per NIT Yes/No
6. Whether quoted prices are FIRM as per NIT Yes/No
7. Whether Price quoted is on FOR destination basis as per NIT Yes/No
8. Acceptance of Payment terms as per NIT Yes/No
9. Acceptance of Liquidated damages & Risk purchase clause as per NIT. Yes/No
10. Acceptance of Price fall clause as per NIT. Yes/No

NOTE: NON-ACCEPTANCE OF ANY OF THE TERMS AND CONDITIONS MAY LEAD TO REJECTION OF OFFER.

SIGNATURE OF THE TENDERER
WITH SEAL & STAMP
## COMMERCIAL STATEMENT CHECKLIST

**Tender no** – Pur/56007/09-10/TSU/26  
**due on** 29-6-09

**Opening Date:**  
**Name of the Firm:**  
**Offer no:**  

Please confirm the followings:

<table>
<thead>
<tr>
<th>Q.No</th>
<th>List of questions</th>
<th>Indicate in Yes / No below</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Are you a Manufacturer ?</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Are you a exclusively authorized marketing outlet of a manufacturer ?</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>If the reply against (2) above is yes, than have you indicated the name &amp; full address of the Principal.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>In case of (2) above whether the Principal's exclusive Authorisation to quote against this tender is enclosed with the offer</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Have you submitted the tender fee or Proof of payment of tender fee in Part-I as indicated at clause 4.2 (This is applicable in case of those bidders who have downloaded the tender papers through BCCL's website.)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Have you carefully prepared and signed with name &amp; designation and have stamped the company's seal on all pages of tender documents/offer along with enclosures consisting of PART-I, PART-II &amp; PART-III.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Have you enclosed in Part-I a blank format of price bid (Price format as per Annexure-C), as quoted by you (WITHOUT PRICE) along with confirmation that Price bid have been carefully prepared and signed on all pages of price bid.</td>
<td></td>
</tr>
<tr>
<td>8(a)</td>
<td>Have you quoted FOR Destination Price with break up as per NIT.?</td>
<td></td>
</tr>
<tr>
<td>8(b)</td>
<td>In case of imported items, will you submit certificate with each supply of your Auditor certifying that you have paid Customs Duty as per prevailing Customs Rates and refund if any has been passed on to buyer ?(Clause 25)</td>
<td></td>
</tr>
<tr>
<td>8(c)</td>
<td>Have you accepted to submit certificate of the auditor that Refund/Credit, if any, obtained in respect of Excise duty shall be passed on to the buyer.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Have you quoted firm price ?</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Is your offer valid for 180 days from the date of opening of tender ?</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Have you specified firm delivery period ?</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Have you accepted Liquidated Damages &amp; Force majeure clause ?</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Have you accepted Payment terms ?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Question</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Have you accepted Inspection terms?</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Have you submitted Earnest Money OR enclosed any documentary evidence for exemption towards submission of EMD?</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Have you accepted to submit Performance Bank Guarantee</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Have you accepted to deposit Security money or enclosed any documents for exemption towards submission of SD?</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Have you sought any deviations in COMMERCIAL OR TECHNICAL PARAMETERS and have specified them in the scheduled prescribed for them in schedule of tender submission?</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Have you submitted copies of documents DGMS in case of DGMS approved items.</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Have you accepted Price fall clause?</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Have you accepted Jurisdiction of Dhanbad Court and Jharkhand High court?</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Have you accepted Warranty clause?</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Have you submitted declaration that you have not been banned or de-listed by any Government or quasi-Government agencies or PSUs?</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Have you submitted declaration that you have accepted all the commercial terms and conditions as per NIT without any reservation.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** In case of any difference in between the terms indicated in the offer and confirmation given above, the confirmation given in the commercial check – list shall be treated as final.

**SIGNATURE OF THE TENDERER**

**WITH SEAL & STAMP**
LETTER OF PERFORMANCE GUARANTEE.

1. Messrs. ------------------------------------------------------- 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 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 our 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
INTEGRITY PACT:

BCCL has signed M.O.U with M/S. TRANSPARENCY INTERNATIONAL INDIA for implementation of INTEGRITY PACT for purchase of TENDERS valued at Rs. 2.00 CRORES and ABOVE. The INTEGRITY PACT DOCUMENT to be signed by the Bidders is enclosed. Submission of INTEGRITY PACT DOCUMENT DULY SIGNED, STAMPED AND ACCEPTED IS MANDATORY FOR THIS TENDER. THEREFORE, THE TENDERERS ARE ADVISED TO SUBMIT THE INTEGRITY PACT DOCUMENT DULY SIGNED, STAMPED AND ACCEPTED IN A SEPARATE SEALED ENVELOPE SUPERSCRIBING “INTEGRITY PACT AGAINST TENDER NO.BCCL/Pur/610000/SDL Machine(Std. & Low Height)/09-10/20 DUE ON 29-05-2009.

IN CASE THIS IS NOT SUBMITTED IN A SEPARATE COVER ALONGWITH THE TENDER, THE TENDER MAY BE CONSIDERED AS UNRESPONSIVE AND MAY NOT BE CONSIDERED FURTHER FOR EVALUATION.

Independent External Monitor for this tender is

Retired Justice Shri Ashok Kumar Chakraborty,

BB-69, Sector- I, Salt Lake, Kolkata- 700064
INTEGRITY PACT

Between

BHARAT COKING COAL LIMITED (BCCL) hereinafter referred to as “The Principal”

And

………………………………..hereinafter referred to as “The Bidder/Contractor”

Preamble

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

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental
Organization “Transparency International” (TI). Following TI’s national and international experience, the
Principal will appoint an external independent Monitor who will monitor the tender process and the execution of
the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the
following principles:-

1. No employee of the Principal, personally or through family members, will in connection with the tender for, or
the execution of a contract, demand, take a promise for or accept, for him/herself or
third person, any material or immaterial benefit which he/she is not legally entitled to.

2. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in
particular, before and during the tender process, provide to all Bidders the same information and
will not provide to any Bidder confidential/additional information through which the Bidder could obtain an
advantage in relation to the tender process or the contract execution.

3. The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under
the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will
inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder/Contractor

(1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits
himself to observe the following principles during his participation in the tender process and during the contract
execution.

1. The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the
Principal’s employees involved in the tender process or the execution of the contract or to
any third person any material or immaterial benefit which he/she is not legally entitled to, in order to obtain in
exchange any advantage of any kind whatsoever during the tender process or during the execution of the
contract.

2. The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding,
whether formal or informal. This applies in particular to prices, specifications,
certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict
competitiveness or to introduce cartelisation in the bidding process.

3. The Bidder/Contractor will not commit any offence under the relevant Anti-corruption Laws of India; further the
Bidder/Contractor will not use improperly, for purposes of competition or personal gain, or pass on to others, any
information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

4. The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

(2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

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

1. If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or credibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

2. The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 4 – Compensation for Damages

1. If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to 3% of the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.

2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 – Previous transgression

1. The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all Bidders/Contractor/Subcontractors
1. The Bidder/Contractor undertakes to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.

2. The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.

3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 – Criminal charges against violating Bidders/Contractors/Subcontractors

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

Section 8 – External Independent Monitor/Monitors

(three in number depending on the size of the contract)

(to be decided by the Chairperson of the Principal)

1. The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.

3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor 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 is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality.

4. The Principal 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 Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the ‘Principal’ and, should the occasion arise, submit proposals for correcting problematic situations.

7. Monitor shall be entitled to compensation on the same terms as being extended to/provided to Outside Expert Committee members/Chairman as prevailing with Principal.

8. If the Monitor has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

9. The word ‘Monitor’ would include both singular and plural.

Section 9 – Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.
If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the
lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

Section 10 – Other provisions

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the
Principal, i.e. DHANBAD

2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have
not been made.

3. If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or
consortium members.

4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement
remains valid. In this case, the parties will strive to come to an agreement to their original intensions.

_________________________________  ________________________________
For the Principal For the Bidder/Contractor

Place…………………… Witness 1 : ………………………………
Date …………………… Witness 2 : ………………………………
Annexure-A

Tender No. Pur/56007/09-10/TSU/26
due on 29-6-09

SPECIFICATION OF FLP TRANSWITCH UNIT

1 DGMS approved FLP air cooled mining transformer having HV switch gear and LV chamber with protective gears suitable for 6.6 KV insulated neutral system to work in under ground coal mine at ambient temperature of 45 deg. C at 98% humidity. The details will be as under:

1. **Parameter under which unit required to be used:**

   2.1 Site for use of equipment - Under ground coal mine between two main takes
   2.2 Altitude for working site - 300 M approx.
   2.3 Ambient temperature at site - 45 deg. C
   2.4 Humidity - 98%

3. **Technical parameters:**
   **Transformer:**
   3.1 Mobile Transwitch unit comprising of
   3.2 Dry type transformer Flame proof
   3.3 Rating - 500 KVA 3 Phase
   3.4 Voltage ratio – 6600 /550 V
   3.5 Connection - Delta/Star
   3.6 Vector group – DY11
   3.7 Winding material – Copper
   3.8 Type of cooling - AN
   3.9 Bolted link type (In side tank ) Tape changer having ± 2.5 % ± 5% ±7.5% setting range on H.T. side
   4.0 IS to which the transformer confirm – IS 11333/1985 latest amended if any
   4.1 Class of insulation – C
   4.2 Temperature rise – At any point of outside surface of transformer shall not be more than 50ºC over ambient temperature at continuous full load operation.
   4.3 Neutral should be earthed through resistance/impedance in a manner that earth fault current shall not be more than 750 mA and this should be suitable for restricted neutral system as per IE rule 116.

5. **Details of HV SIDE with protective device**
   5.2 System voltage – 6600 V , 3 Phase , 50 HZ
   5.3 Rupturing capacity – 150 MVA at 6.6KV
   5.4 400 Amp. Capacity triple pole manually operated trip free mechanism
   5.5 Static over current relay range 50% to 200% in steps of 25% with automatic reset.
   5.6 Static short circuit relay range 4 to 8 times of full load current with reset facility from outside.
   5.7 Under voltage release.
   5.8 Earth fault relay through CBCT range 200mA to 4.0 A. with reset facility from outside.
   5.9 Surge arrestor incorporated with phase limiting voltage 6 KV ,50HZ(22KV peak)
   5.91 Indication HV side – Live line , Voltmeter , Ammeter & Fault indication.
   5.92 Interlock (HV side) – Front door with isolator, Isolator with circuit breaker & Loss of vacuum.
5.93 Cable connection HV side – Both way (in coming) flame proof adaptor for bolted type coupler (6.6 KV, 300 A) as per relevant IS.
5.94 Epoxy sealed single phase P.T. 6600/110 V for shunt trip
5.95 Volt meter suitable scaled
5.96 Off load 3 pole isolator on CB mounting FLP chamber of transformer. It shall have interlocking with CB and complete with a set of main and auxiliary terminals

6. L.V. side with protective device
6.1 L.V. side terminal chamber shall be air insulated suitable for 1100V grade and mounted on flange of L.V. side of transformer with provision of two FLP straight adaptor as per IS 2148 / 1981 for connection 300A bolted type cable coupler.
6.2 The L.V. side shall house neutral current transformer with two secondary winding one for actuating E.L. relay and second for testing of EL relay system – 1 no.
6.3 Solid state over current protection relay range 50 – 300 A per outgoing and solid state short circuit protection 50 – 2500 A
6.4 Neutral earth link (through resistance of suitable value) – 1 set
6.5 Fail safe sensitive earth leakage based on restricted neutral system maximum fault current of transformer should be limited to 750 mA at 550V. earth leakage relay setting 50 mA to 250 mA having setting value at (50, 60, 100, 150, 200 & 250) mA with time lag between 0 to 1 sec in step of 100 mili second with test and reset from outside.
6.6 To provide Neutral resistance monitoring device to trip the breaker in case of opening or short circuit of Neutral resistance.
6.7 Search and lockout relay operation between 10 to 30 K OHM insulation level range
6.8 Indication LV side – Voltmeter, Ammeter & Fault indication
6.9 Ammeter suitably scaled – 1 no.
6.9 Voltmeter suitably scaled – 1 no.

7 Mounting
7.1 Whole unit shall be mounted on axle fitted with broad flanged roller of suitable dia & suitable for transportation on rail having track width 900mm.
7.2 Provision of attachment haul able chain to the base unit.
7.3 Approx. overall dimension to mention.

8. Documents / information to be submitted with offer:
8.1 Documentary evidence of being OEM.
8.2 Copies of test report for type test for identical transformer from CPRI or Govt. test house.
8.3 Test report in support of rupturing capacity of CB as per IS 13110 / 1991 from Govt. test house.
8.4 Value of no load loss for offered transformer.
8.5 Value of full load loss for offered transformer.
8.6 Percentage impedance for offered transformer.
8.7 Dimensional drawing indicating total weight in kg CB etc.
8.8 Weight of core and copper.
8.9 Weight of core only.
8.91 Copy of Currently valid DGMS approval for Tran switch unit indicating capacity and voltage ratio.

Dy.Chief Materials Manager(P)