



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 04

Ref: PSER:SCT:KBA-E1016:09:TCN-04

Date: 17-06-2009

Sub	Tender change notice (TCN) 04.	
Job	Supply, receipt at site, all handling, transportation from store / store-yard to erection site, erection, testing and commissioning of equipment and systems for construction power distribution system (LT KIOSKS etc.) including obtaining clearances from various authorities as well as Operation & Maintenance work for 1x500 MW Korba West, Chattisgarh.	
Ref	1.0	Tender no PSER:SCT:KBA-E1016:09.
	2.0	BHEL's NIT vide ref no PSER:SCT:KBA-E1016:09, dated 12-05-2009.
	3.0	BHEL's TCN-01 vide ref no PSER:SCT:KBA-E1016:09:TCN-01, dated 02-06-2009.
	4.0	BHEL's TCN-02 vide ref no PSER:SCT:KBA-E1016:09:TCN-02, dated 09-06-2009.
	5.0	BHEL's TCN-03 vide reference no PSER:SCT:KBA-E1016:09:TCN-03, dated 16-06-2009.

With reference to above, following points relevant to tender, may please be noted & complied with while submitting offer.

- 1.0 Vol-IC & ID - REV-01 (Special Conditions of Contract) (FILE -2) introduced superceding the earlier one.
- 2.0 Revised BOQ cum schedule of rates-Rev.01 (FILE - 3) introduced.

- **BIDDERS ARE REQUESTED TO NOTE THAT THE REVISED BOQ CUM RATE SCHEDULE (REV-01) SUPERSEDES ORIGINAL BOQ. BIDDERS SHALL SUBMIT THEIR OFFER ONLY AS PER REVISED BOQ (REV-01). OFFER FROM BIDDER IN SUPERSEDED BOQ WILL NOT BE CONSIDERED.**

BIDDERS ARE REQUESTED TO SUBMIT OFFER BY THE DUE DATE OF SUBMISSION OF OFFER i.e. 19-06-2009.

All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

DGM.(SCT)

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PROJECT SYNOPSIS – GENERAL INFORMATION

PROJECT INFORMATION		
1	Owner	Chattisgarh State Electricity Board
2	Project Title	Korba West TPP (1X500MW)
3	Location	Located the Korba District of Chattisgarh State Road Distances from major cities are a) Korba -10Km b) Bilaspur-125km c) Raipur-250km. The nearest railway station is at Korba which is connected to Champa via the Howrah-Mumbai main line
4	Nearest Railway Stn.	Korba
5	Access Road	Road Distances from major cities are a) Korba -10Km b) Bilaspur-125km c) Raipur-250km.
6	Nearest Airport	Raipur
7	Latitude of site	22°24' to 22°25' N
8	Longitude of site	82°43' to 82°44' E

The Bidder shall acquaint himself by a visit to the site with the conditions prevailing and existing facilities available at site before submission of the bid. The information given herein under is for general guidance and shall not be contractually binding on BHEL/Owner.

1. OBLIGATIONS OF THE CONTRACTOR

The services to be rendered by the bidder shall include but not limited to the following :

TOOLS AND PLANTS

Contractor shall provide all tools and plant required for the installation, operation & maintenance of the complete set up. In this connection it may be noted that BHEL will not provide any tools and plants.

The contractor shall provide all the necessary steel/wooden scaffolds, working platforms for working at elevations, temporary structures etc; required for this work.

In the event of contractor failing to arrange the required tools and plants and testing equipments and non-availability of the same owing to breakdown, or otherwise, BHEL will take appropriate action at contractor's risk and cost.

The T&P and testing equipments arranged by the contractor shall be in proper working condition, which shall not lead to unsafe conditions. All T&Ps, lifting tackles, pulling devices to be deployed by the contractor must bear valid/latest test certificates for their suitability and documents in support shall be available at site. Relevant copies shall be submitted to BHEL for record purpose.

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CONSUMABLES

The contractor shall provide all consumables required for carrying out the work covered under this scope of work. In the event of failure of contractor to bring necessary and sufficient consumables for execution of work, BHEL shall arrange for the same at the risk and cost of the contractor. The entire cost towards this along with BHEL normal overhead shall be paid by the contractor or deducted from contractor's bills.

FIELD OFFICE AND STORES

No office accommodation will be provided by BHEL. Only open space will be provided by BHEL free of cost for contractor's office on a temporary basis.

The contractor shall make his own arrangements for developing field office cum stores. Open land for the same will be provided by customer / BHEL free of charge. After the completion of work, contractor shall dismantle the above structure, clear all the debris and handover the vacant land to BHEL/customer.

LIGHTING

The contractor at his cost should arrange for temporary lighting. This arrangement is besides the local lighting that may be required for the execution of the work, which shall also be arranged by the Contractor.

All temporary wiring must comply with regulations and will be subjected to Engineer's inspection and approval before connecting to supply point.

LABOUR COLONY

BHEL shall not provide land for construction of labour colony. Contractor shall make his own arrangements for labour colony including lighting, water etc. and comply with all requirements.

SUPERVISORS AND LABOUR

Contractor shall deploy in adequate strength labour, technicians and engineers / supervisors for this work.

It is the responsibility of the contractor to engage his workmen in shifts and or overtime basis for achieving the target set by BHEL. This target may be set to suit BHEL's commitments to its customer or to advance date of completion of events or due to other reasons. The decision of BHEL in regard to setting the target will be final and binding on the contractor.

Contractor shall employ only qualified and experienced engineers / supervisors for this job. They shall have professional approach in executing the work having adequate knowledge and experience in the fields of erection, erection methodology, calibration, testing and commissioning, quality control assurance procedures, planning, safety etc. required to undertake the type of work as per this tender.

For Operation and Maintenance, following manpower under supervision of a qualified supervisor having license for 11KV overhead line/ cable / Switchgear is to be provided. Three shift duty (round the clock) as per the need is to be arranged. The entire system is to be manned all through the 365 days in a year (till this contract completion) including weekly off, national & state holidays.

1. Overall Supervisor
2. Electrician

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3. Helper

Contractor has to arrange for the accommodation / boarding & lodging and transport of their staff with all medical / holiday facilities with adequate standby staff for unaffected staffing of duty.

Contractor shall employ only qualified and experienced supervisors for this job. They shall have professional approach in executing the work and should have adequate knowledge and experience in the fields of O&M, safety etc. required to undertake the type of work as per this tender.

SAFETY ASPECTS AT SITE

Contractor shall ensure adherence to the requirement of safety connected with this work. He shall provide necessary safety appliances to his workmen and supervisors and ensure use of the same to prevent loss of human lives, injuries to men engaged and damage to property and environment. Safety Guidelines of BHEL / customer shall be applicable.

Contractor shall obtain necessary work permits from BHEL / customer prior to taking up any work on the system. He shall arrange for display of due and necessary caution notices / boards etc.

All electrical equipment, connections and wiring for construction power, its distribution and use shall conform to the requirements of Indian electricity act and rules. Only electricians licensed by the appropriate statutory authority shall be employed by the contractor to carryout all types of electrical work. All electrical appliances including portable electric tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed.

The contractor shall be held responsible for any violation of statutory regulations (local, state or central) and BHEL instructions that may endanger safety of men, equipment, material and environment in his scope of work or another contractors or agencies. Cost of damage, if any, to life and property arising out of such violation of statutory regulations shall be borne by the contractor.

In case of a fatal or disabling injury / accident to any person at site due to lapse by the contractor, the victim and / or his / her dependants shall be compensated by the contractor as per statutory requirements. However, if considered necessary, BHEL shall have the right to impose appropriate financial penalty on the contractor and recover the same from payments due to the contractor for suitably compensating the victim and / or his / her dependants. Before imposing any such penalty, appropriate enquiry shall be held by BHEL giving opportunity to the contractor to present his case.

In case of any damage to property due to lapses by the contractor, BHEL shall have the right to recover cost of such damages from payments due to the contractor after holding an appropriate enquiry.

In case of any delay in the completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have the right to recover cost of such delay from payments due to the contractor after notifying the contractor suitably and giving him opportunity to present his case.

If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being given a reasonable opportunity to do so, and / or if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instruction regarding safety issued by BHEL official, BHEL shall have the right to take corrective steps at the risk and cost of the contractor after giving a notice of not less seven days indicating the steps that would be taken by BHEL.

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The contractor shall submit report of all accidents, fires and property damage, dangerous occurrences to the BHEL official immediately after such occurrence but in any case not later than twelve hours of the occurrence. Such report shall be furnished in the manner prescribed by BHEL. In addition, periodic reports on safety shall also be submitted by the contractor to the authorized BHEL official time to time as prescribed.

INDUSTRIAL RELATIONS AND LABOUR LAWS

Contractor shall implement local labour laws, maintain necessary records and co-ordinate with the local labour authorities on all aspects of labour and industrial relations.

The contractor shall comply with the applicable law, rules and regulations etc; with regard to employment of labour. He shall obtain labour license.

WATCH & WARD

The contractor shall be responsible for Security of all equipment in his custody issued by BHEL/brought by him against pilferage, damage, etc. The contractor shall also be custodian of the items installed by him.

STATUTORY INSPECTION

The scope includes getting the approvals from the statutory authorities. This includes arranging for inspection visits of electrical inspector periodically as per BHEL Engineer's instructions, submitting documents etc. and following up the matter with them as and when necessary for the work involved in this scope. Statutory Fees paid will be reimbursed on production of evidence.

AS BUILT DOCUMENTATION

The contractor shall submit 'As built' Drawing of the network executed/erected.

2. OBLIGATIONS OF BHEL

FACILITIES TO BE PROVIDED BY BHEL

WATER

Construction water as well as drinking water shall be provided by BHEL free of cost.

ELECTRICITY

Construction power for field office/construction work will not be provided by BHEL and the contractor shall make necessary arrangement. However, the supply point provided by Owner may be used for drawal of construction power free of charges subject to its availability/readiness. However, in that case necessary switchboard, fuse carriers, power cable etc. shall be arranged by the contractor for connecting to Owner's supply point.

BHEL will not be responsible for any loss or damage to the contractor's equipment as a result of variations in voltage or frequency or interruptions in power supply.

3. INSURANCE

3.1. Transit, Storage and Erection Insurance – Repairing Damages

BHEL will arrange insurance cover for all the equipments under transit and storage-cum-erection policy covering liabilities against damages/ losses etc. Vendor will inform BHEL's underwriter directly quoting Policy No. despatch particulars of materials despatched under intimation to Construction Manager, BHEL Site Office at Korba.

3.2. Reporting Damages and Carrying Out Repairs

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- 3.2.1 Contractor shall report to BHEL in writing any damages to equipments/components on receipt, storing, and during drawl of the materials from stores, in transit to site and unloading at place of work and during erection and commissioning. The above report shall be as prescribed by BHEL site management. Any consequential loss arising out of non-compliance of this stipulation will be borne by contractor.
- 3.2.2 Contractor shall render all help to BHEL in inspection including handling, re-stacking etc, assessing and preparing estimates for repairs of components damaged during transit, storage and erection, commissioning and preparing estimates for fabrication of materials lost/damaged during transit, storage and erection. Contractor shall help BHEL to furnish all the data required by railways, insurance company or their surveyors for lodging & settling Insurance Claim.
- 3.2.3 Insurance shall also be guided by the clause no. sub clauses 26.1 to 26.4 of clause no. 26.0 of GCC , Vol I B of this tender
- 3.2.4 Payment for all extra works for repair/ rectification / reworks / fabrication etc. against insurance claims for no fault of contractor will be as per the provisions of sub clauses of 6.1 to 6.8 of clause no. 6.0 of SCC, Vol II of this tender document.
- 3.2.5 The contractor shall take suitable insurance policies to cover his workers under workmen's Compensation Act to cover risks of his staff /Engineers through group personnel accident insurance policy, to cover risks of his tools, tackles and equipments and a suitable insurance policy to cover damage to property or personnel or third parties. In case the damage/loss/theft of materials are attributable to negligence/failure in discharging the duties and obligations of the contractor, and in case the claim is summarily rejected by the underwriters due to reasons attributable to the contractor, the entire cost of repair/replacement incurred by BHEL will be recovered from the contractor.
- 3.3 **Operation & Maintenance Services** : On successful installation and commissioning of the system (to be certified by BHEL Construction Manager), the contractor shall do the necessary operation and maintenance works of the system for a period of thirty seven months. All T&Ps and consumables required for carrying out the maintenance works of the system shall be arranged by the contractor. Replacement of damaged materials, if any shall be done by the contractor within the quoted price for the materials supplied by them.

4. TIME SCHEDULE:

- 4.1. The contractor has to start the work within 15 days from the date of issue of LOI with adequate mobilization to the satisfaction of Construction Manager, BHEL site office, KorbaWest .
- 4.2. Supply of Equipment [**ie BOQ SECTION –A**] under the scope shall be done in phased manner & completed at least **3 (three) months from date of LOI**. The entire work of Erection, Testing & Commissioning of the equipment under the scope of contract [**under BOQ SECTION- B(i)**] shall have to be done in phased manner & completed within a time period of **4 (Four) months from date of LOI**. Detail Bar Chart [for supply & erection] for all activities shall be prepared and agreed at site to match above schedule.
- 4.3. On successful installation and commissioning of the system, **the contractor shall do the necessary maintenance works of the system for 37 (thirty seven) months** . All T&Ps and consumables required for carrying out the maintenance works of the system shall be arranged by the contractor.
- 4.4. The contractor will submit a work program & shall be got approved by the Project Manager, BHEL, PSER, KOLKATA / SITE INCHARGE –Korba West .
- 4.5. The work under the scope of contract (erection & commissioning) is deemed to be completed in all respects only when all the equipment/ components are erected and testing and commissioning of all equipment are completed in all respect as certified by BHEL. The decision of BHEL in this respect is final and binding to the contractor.

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4.6. During the tenure of the contract, if the progress of work is not found satisfactory by BHEL, BHEL has the right to withdraw any portion of the work / balance works and get the same done through other agency at the risk and cost of the contractor. The contractor shall not be entitled for any compensation, whatsoever in this regard.

4.7 COMPENSATION FOR DELAY

SUPPLY: Delivery as per schedule is essence of the contract. In case of delay in delivery beyond agreed contractual delivery schedule, liquidated damages a sum equivalent to ½ (half) per cent of the supply price for the delayed portion per week or part thereof subject to a maximum of 10% of total supply price shall be levied.

ERECTION [BOQ SECTION-B(i)] : Compensation for delay with respect to erection, testing and commissioning under the scope of contract will be regulated as per Clause no. 6.5 of GCC [General Conditions of Contract] Vol IB. **However," total contract price" under this clause shall be read as "Total executed erection price " as per section – B(i) of BOQ . All other terms under this clause shall remain unchanged.**

OPERATION & MAINTENANCE [BOQ SECTION –B (ii)] : In case the contractor fails to deploy requisite manpower as per direction of BHEL/Site and fail to maintain the construction power, then if the non-functioning continues more than one day, due to the fault of the contractor, the Liquidated damage shall be levied @ 0.25% per day or part thereof of the delay on the O&M contract value [BOQ SECTION–B (ii)] limited to 5% of the O&M portion of the contract value.

4.8 BHEL may grant extension of time schedule in case the reasons are beyond the control of the contractor. Contractor shall provide sufficient documentary evidence, to prove the reasons for delay not in his control, as required by BHEL.

5. PAYMENT TERMS

5.1 SUPPLY OF EQUIPMENT [BOQ SECTION – A] :

Following pro-rata payment shall be released :

- a. Receipt & acceptance of Equipment by BHEL at site – 80%
- b. Erection of supplied Equipment – 15%
- c. End of Guarantee Period – 5%

However, the 5% payment at 5.1(c) above, can be released against submission of performance bank guarantee valid for the guarantee period in prescribed proforma subject to receipt of certificate that all works are completed in all respects. The submission of bank guarantee towards performance guarantee is separate and the bank guarantee towards security deposit cannot be utilised for this purpose. The security deposit will be refunded as per GCC.

5.2 ERECTION TESTING AND COMMISSIONING OF EQUIPMENT [BOQ SECTION – B(i)]:

Following pro-rata payment shall be released:

- a. Erection of Equipment – 90%
- b. Testing & Commissioning of Equipment – 5%
- c. End of Guarantee Period – 5%

However, the 5% payment at 5.2(c) above, can be released against submission of performance bank guarantee valid for the guarantee period in prescribed proforma subject to receipt of certificate that all works are completed in all respects. The submission of bank guarantee towards performance guarantee is separate and the bank guarantee towards security deposit cannot be utilised for this purpose. The security deposit will be refunded as per GCC.

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5.3 O&M SERVICE [BOQ SECTION-B(ii)]

95% will be released against each RA Bill .5% retention will be paid at the end of the contract period along with Final Bill.

However, the last 5% payment at 5.2 above, can be released against submission of performance bank guarantee valid for the guarantee period in prescribed proforma subject to receipt of certificate that all works are completed in all respects. The submission of bank guarantee towards performance guarantee is separate and the bank guarantee towards security deposit cannot be utilised for this purpose. The security deposit will be refunded as per GCC.

5.2A Out of above mentioned 90 % of gross bill value (Erection & Commissioning portion), 1.5 % of gross bill amount shall be paid in the following manner on certification by BHEL engineer after compliance of each of following activity in each month. In case of non-fulfilment of respective activity by vendor in each month, no payment shall be made by BHEL against corresponding activity and no claim of bidder at a later date, whatsoever, in this regard shall be entertained by BHEL.

- i) 0.7 % shall be paid on compliance of house keeping of vendor's working area and store/ office areas.**
- ii) 0.3 % shall be paid on compliance of general illumination of vendor's working area and stores, office area.**
- iii) 0.2 % shall be paid on compliance of applicable OHSAS requirement as per guidelines of BHEL/ PSER and as specified in the tender.**
- iv) 0.3 % shall be paid on compliance of applicable Safety requirement as per guidelines of BHEL/ PSER and as specified in the tender.**

5.2B In addition to existing clause of HSE of tender, following points will also be added to HSE clause to which the vendor shall comply with in order to get the payment as enumerated above.

The vendor will follow HSE policy of BHEL/ PSER and work as per the safety guidelines which is in line with ISO:14001 and OHSAS:18001 standards. A list of the guidelines which should be strictly followed by the vendor is as follows. The scope of vendor shall not be limited to the followings (1.0 to 40.0) only but shall be guided by the HSE related policies/ guidelines of BHEL as revised to suit the requirement of the standards and statutory requirements.

- 1.0 Nominate a safety officer who will supervise all the HSE aspects.**
- 2.0 The safety officer will participate in all safety meeting conducted by BHEL.**
- 3.0 Submit site safety plan indicating safety measures to be taken, fire fighting equipments & PPE to be deployed.**
- 4.0 Report every near miss incident to BHEL.**
- 5.0 Report accident report immediately after the occurrence.**
- 6.0 Obtain operation control procedures (OCPs) from BHEL for the work to be executed**
- 7.0 Follow factory act.**
- 8.0 Every worker should use PPE as per his trade. All PPE should confirm to IS.**
- 9.0 Conduct tool box meeting with workers everyday before start of work instructing about the use of PPE. The outcome of the meeting to be recorded in a register.**
- 10.0 Check fitness of the PPE and lifting tackles weekly and record in a register which will be verified by BHEL.**
- 11.0 No person below 18 years will be employed.**
- 12.0 Deploy fire-fighting equipments and refill before expiry.**
- 13.0 Keep fire extinguishers of adequate type near the hot job and near the electrical machines.**

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- 14.0 Copy of valid Test certificates of all T&Ps should be given to BHEL as soon as the item enters the project, without which the T&P can not be allowed to be used.
- 15.0 No body will be allowed to work above 2 meters without safety belt/ harness with lifeline secured to a fixed member.
- 16.0 Good housekeeping has to be maintained. All debris shall be removed from workplace within shortest possible time.
- 17.0 Approach roads should not be blocked with cables, materials or debris.
- 18.0 First aid boxes have to be kept and maintained with all requisite materials as per factory act.
- 19.0 Trained person has to be kept for giving first aid.
- 20.0 Adequate illumination shall be provided where working.
- 21.0 All vehicles should have backlight, reverse horn and reversing light.
- 22.0 Crane operator shall have proper license.'
- 23.0 Crane should have reverse horn.
- 24.0 Only skilled person maintain and operate electrical items.
- 25.0 ELCB has to be used. No temporary connection shall be allowed.
- 26.0 All fuses shall have standard rating and capacity.
- 27.0 All power supply cables should be laid above 3 meter level or underground.
- 28.0 All hand lamps should be powered by 24 volts.
- 29.0 Water-logging of working area shall be removed.
- 30.0 For operating portable machines 3 pin plugs shall be used.
- 31.0 Oxygen and DA cylinders shall be separated labeling full or empty. Full cylinders shall be kept upright.
- 32.0 Cylinders are not transported by rolling.
- 33.0 All oil drums shall be kept horizontal.
- 34.0 Excavated area shall be barricaded off with red-& white tape.
- 35.0 Proper slope of excavation shall be maintained.
- 36.0 Proper sign board and illumination shall be maintained at excavated area.
- 37.0 Wherever possible safety net shall be provided.
- 38.0 Proper platform and hand rail has to be provided at the work place.
- 39.0 All electrical equipments shall be earthed at two points.
- 40.0 Temporary platform should be strong enough, have proper approach and hand rails.

The above clauses are indicative only and not exhaustive. The other activities to maintain strong HSE conditions at site which may be beyond the above list of guidelines shall have to be done by the vendor.

6. EXTRA CHARGES FOR MODIFICATION AND RECTIFICATION

- 6.1. All rectification/ modification/ re- vamping and reworks required for any reasons not due to fault of contractor on works already completed, fabrication needed due to any change in or deviation from the drawings and design of equipment, operation/ maintenance requirements, mismatching, transit damages and other allied works which are not very specifically indicated in the drawings, but are found essential for satisfactory completion of the work, are done, which requires less than or up to 50 man hours in each occasion shall be considered as minor and shall be carried out by the contractor free of cost in each occasion. The bidders are requested to take this aspect into account and the quoted rate should include all such contingencies.
- 6.2. It may also be noted that if any such said extra works arise on account of the contractor's fault or faulty material supplied, it will have to be carried out by the contractor free of cost. Under such circumstances, any material and consumable required for this purpose will also have to be arranged by the contractor at his cost.
- 6.3. However, BHEL may consider for payment as extra, for such of those works detailed in clause 6.1 which require more than 50 man hours in each occasion. Suppose an extra work involves 60 man hours, then payment will be

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made for entire 60 man hours and not 10 (60-50) man hours. It may be specifically noted that the decision of BHEL as to whether such payment is due shall be final and binding on the contractor.

- 6.4. BHEL may, at their absolute discretion, consider for payment as extra on man hour basis as found by them as justifiable which require major modification, major repair, major reworks, major rectification etc. It may also be noted that only those works, which are identified as major and warrant extra payment and certified as such by the project manager and accepted by the designers and/or competent authority of BHEL, will be considered for extra payment.
- 6.5 A separately identified gang shall carry out the extra works. No diversion of regular gang for such extra works will be permissible and no delay or slow progress should be caused due to executing extra works. Hence, the question of granting extension of time for this reason should not arise.
- 6.6 Daily log sheets in the pro forma prescribed by BHEL should be maintained and shall be signed by the contractor's representative and BHEL engineer. No claim for extra work will be considered/ entertained in the absence of the said supporting documents i.e. Daily log sheets. It may, however, be noted that signing of log sheets by BHEL engineer does not mean the acceptance of such works as extra works eligible for payment of the acceptance of number of man days needed for the work. Also contractor shall complete the extra work done regularly and submit the same within 30 days after completion of extra work.
- 6.7 BHEL retains the right to award or not to award any of the major repair/major rework/major modification/major rectification/major fabrication works to the contractor, at their discretion without assigning any reason for the same.
- 6.8 After eligibility of extra works is established and finally accepted by BHEL engineer/designer, payment will be released on competent authority's approval at the following rate.

Extra Charges : Single average **man hour** rate, including overtime, if any, supervision and other site expenses and incidentals, over heads, tools and tackles for carrying out any major rework/repairs/ rectification/ modification/ fabrication as may arise during the course of erection:

For jobs with consumables :: Rs. 40/- (Rs. Forty only) per man hour

For jobs without consumables :: Rs. 25/- (Rs. Twenty five only) per man hour

Note: The above man hour rates towards extra work shall be firm and not subject to any escalation during execution of work including extensions, if any.

7.0 Two contracts will be awarded i) Supply & Erection, Commissioning contract ii) O&M contract .

7.1 TAXES & DUTIES (Supply, Erection and Commissioning Contract pertaining to BOQ A, B(i))

- 7.1.1 TDS under Income Tax, V.A.T etc, if any, shall be deducted at prevailing rates on Gross Invoice Value from the Running Bills unless Exemption Certificate from the Appropriate Authority/ Authorities is furnished.
- 7.1.2 All taxes (except Service Tax including Educational Cess and other Cess , if any) , Works Contract Tax under V.A.T ACT, charges royalties, duties, Octroi , any State or Central Levy and other Taxes for materials obtained for the work and for the Execution of the Contract shall be borne by the Contractor and shall not be

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payable extra. Any Increase of the same at any stage during execution of the Contract shall have to be borne by the Contractor . Quoted price of the bidder shall be inclusive of all such requirements after taking the Input Credit , if any, as per provisions of the State V.A.T ACT. The Contractor is responsible to furnish all documentary evidences towards payment of Works Contract Tax as and when required by BHEL.. Submission of Tax Invoice is a must after Grossing up the Bills as the price is inclusive of VAT.

- 7.1.3 Service Tax: Finance Act, 2007 introduced a new sub-clause (zzzza) to Section 65 (105) which provided for levying Service Tax on execution of Works Contract with effect from 1.6.07

Notification No. 32/2007-Service Tax provides an option (of composition) to the person liable to pay service tax in relation to works contract service to pay an amount equal to 4.12 % of the gross amount charged for the Works contract instead of normal rate provided in the Sec. 66 of the Act. However, this option of paying service tax @4.12 %(at present) on gross value can be exercised prior to payment of service tax in respect of said Works contract and the option so exercised shall be applicable for the entire works contract and shall not be withdrawn until the completion of said works contract.

As such, Service Tax as legally leviable & payable by the Contractor under the above provisions of applicable law / Act, shall be paid by BHEL-P.S.E.R on Contractor's Gross Bill. However, Contractor shall have to submit proof of Service Tax deposited by them immediately after the deposit but not later than the next Bill submitted after the due date of deposit. The Contractor shall furnish proof of Service Tax registration with Central Excise Division covering the Services as well as exercising the aforesaid option i.e. the Composition Scheme under Notification 32/2007 under this Contract. Registration should also bear endorsement for the premises from where the billing shall be done by the Contractor on B.H.E.L-P.S.E.R for this Project. B.H.E.L-P.S.E.R will not be held to be responsible for non-compliance of various Service Tax Rules, being framed from time to time

- 7.1.4 The Contractor has to make his own arrangement at his cost for completing the formalities , if required , with State V.A.T. Act Authorities , for bringing their materials , plants and machinery at Site for the execution of the Works under this Contract , Road Permit / Way Bill . if required, shall be arranged by the Contractor and BHEL-P.S.E.R will not supply any Road Permit/Way Bill for this purpose. The Contractor must be a Registered Dealer with the State VAT Act ,if not Registered yet and a copy of the said Registration Certificate along with TIN Number must be provided to Site R.A.O.

7.2 TAXES & DUTIES: PACAKGE- (O&M Contract pertaining to BOQ SECTION-B(ii))

- 7.2.1 TDS under Income Tax, , shall be deducted at prevailing rates on Gross Invoice Value from the Running Bills.

- 7.2.2 Service Tax as legally leviable & payable by the Contractor under the provisions of 105) (zzg) to any person, by any person in relation to management, maintenance or repair, shall be paid by BHEL-P.S.E.R on Contractor's Gross Bill. However, Contractor shall have to submit proof of Service Tax deposited by them immediately after the deposit but not later than the next Bill submitted after the due date of deposit .

Registration should also bear endorsement for the premises from where the billing shall be done by the Contractor on B.H.E.L-P.S.E.R for this Project. B.H.E.L-P.S.E.R will not be held to be responsible for non-compliance of various Service Tax Rules, being framed from time to time .

8.0 QUANTITY VARIATION

Quantity indicated in the BOQ are tentative. It may increase/ decrease/ get deleted at the time of execution. Actual quantity executed shall be measured upon and shall be paid at accepted rates. The quoted/ accepted rates shall remain firm and valid for (+/-) 30% (thirty percent) of awarded contract value.

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9.0 PRICE ESCALATION

The quoted / accepted price has to be kept firm for the entire contractual period including total extended period, if any, and no claim for revision of rate is allowed under any circumstances. The rates shall be firm and valid till the completion of the work which shall be certified by the Construction Manager of BHEL. However, the contractor shall maintain sufficient work force and other resources required for completion of the job for the entire contractual period including total extended period.

10.0 RATE REVISION

No rate revision is admissible during or extended period of the contract.

11.0 MOBILIZATION ADVANCE.

No Mobilisation advance shall be paid.

12.0 OVER RUN CHARGES

No over run charges / compensation is applicable for this job.

13.0 PERFORMANCE BOND

NOT APPLICABLE

14.0 GUARANTEE PERIOD

ERECTION, TESTING & COMMISSIONING-

The contractor will be responsible for the quality of workmanship and shall stand guarantee for the work done for a period of 12 months from the date of start of the Guarantee period. The Guarantee period shall commence from date of charging of the entire network (**construction power**) under the scope of the contractor, as certified by Engineer in Charge of BHEL. During the guarantee period the contractor shall rectify all defects due to faulty erection as indicated by BHEL. In case the contractor fails to repair the defective work within the time specified by BHEL Engineer, BHEL may proceed to undertake the repair of such defective work at contractor's risk and cost without prejudice to any other rights and recover the cost from SD / any other dues.

SUPPLY ::

(i) The contractor shall stand Guarantee for entire equipment supplied for a period of 18 months from the date of receipt of last equipment at site

or

(ii) 12 months from date of charging of the entire network as certified by Engineer in Charge of BHEL, whichever is later.

15.0 ISSUE OF MATERIAL DESPATCH CLEARENCE CERTIFICATE :

BHEL may inspect the material at supplier's (vendor/sub-vendor's) works at the discretion of BHEL for which vendor has to give clear at least 15 days notice. BHEL may waive inspection; under such event vendor shall submit 'Test Report/Certificate' for review and issue of despatch clearance.

16.0 CONSTRUCTION SCHEDULE

Though the total Erection & Commissioning period is 4 months form start of work, system related to construction power (E&C) shall be commissioned in phase wise manner so as to ensure progressive availability of construction power as per project requirement starting from third month from zero date provided by contractor in phases .The first phase of completion shall three months from the date of start of work for Boiler Powerhouse area .The overall L2 schedule of execution shall be advised by BHEL site Engineer.

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17.0 AWARDING OF CONTRACT :

Bidder to note that separate orders shall be placed for a) Supply and Services part (combined) for Construction power distribution system and b) Operation & Maintenance of Construction power distribution system. BHEL do not envisage splitting the contract.

Annexure-I

Tentative list of T&P to be deployed by the contractor within quoted rates

1. Crimping tool of all sizes (upto 1000sqmm core size)
2. Box spanner sets (Taparia or equivalent)
3. Vacuum cleaner cum blower
4. Handheld multimeter (digital) (500V & 1000V)
5. 2500KV hand operated megger
6. Earth Tester
7. Phase sequence tester
8. Tong tester upto 1000A
9. Other hand tools like screw driver, pliers, spanners
10. Tree/grass cutting tools
11. Digging tools
12. Flash light/Torches

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Volume-IC & ID (Rev-01)	SPECIAL CONDITION OF CONTRACT

Annexure-II

Tentative list of consumables to be provided by the contractor within quoted rates

1. Insulation Tapes
2. White spirit
3. Kerosene/Petrol/Diesel .
4. Detergent/Soap/cleaning chemicals.

VOLUME-III	
PRICE/RATE SCHEDULE, REV-01	
JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST TPP,CHATTISGARH
TENDER NO :- PPSER:SCT:KBA-E1016:09	
PREAMBLE	
01	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender as per NIT together with subsequent changes/ modifications etc thereto as applicable as on date of submission of price offer.
02	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with this document are only preliminary for giving some idea of the work involved
03	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
04	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc equipment, strengthening of roads/culverts/bridges etc including arranging all clearances etc required for carrying out different activities & tests, materials, levies, taxes & duties (except service Tax), transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the tender document and this schedule.
05	The quantities of the various items mentioned in this schedule of items are approximate, based on the preliminary information and may vary to any extent or be deleted altogether. The quoted rates shall remain firm and valid throughout the period of execution including extension, for reasons what-so-ever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation, remains within thirty percent (+/-) 30% of the awarded contract value as per LOI.
06	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing and leveling etc including fixing of grid pillars, benchmarks etc required for commencement of site activities. No separate payment will be made towards the same.
07	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English
08	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
09	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
10	Summation of quoted prices all the price/rate schedules shall be considered for evaluation.
11	All works item wise shall be measured upon completion and paid for at the rates quoted & accepted.

VOLUME-III (REV-01)			
PRICE/RATE SCHEDULE, REV-01			
JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST TPP.CHATTISGARH		
TENDER NO. PSER:SCT:KBA-E1016:09			
ABSTRACT OF QUOTED PRICE			
Sl.no.	SECTION	DESCRIPTION	TOTAL AMOUNT AS PER QUOTED RATES (IN Rs.) (IN FIGURES AND IN WORDS)
1	Section -A	SUPPLY OF EQUIPMENT	
2	Section -B (i)	RECEIPT, HANDLING, ERECTION , TESTING, COMMISSIONING AND HANDING OVER	
3	Section -B (ii)	O&M OF THE SYSTEM AS PER SCC	
4	GRAND TOTAL PRICE OF SECTION -A , SECTION -B (i) & SECTION -B (ii) (ALL INCLUSIVE TOTAL PRICE)		
NOTE:			
1	QUOTED GRAND TOTAL PRICE AT SL. NO. 4 ABOVE SHALL ONLY WILL BE CONSIDERED FOR BID EVALUATION PURPOSE AND AWARDDING SHALL BE DONE AS PER SCC		
2	TAXES & DUTIES AS PER VOL-IC & ID OF TENDER		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBAWEST TPS,CHATTISGARH				
	TENDER NO. PSER:SCT:KBA-E1016:09				
	SUPPLY OF EQUIPMENT & MATERIAL (SECTION-A) - REV-01				
Sl.No.	Description of Items	Qty	Unit	Unit Rate (In Rs.)	Total Amount (In Rs.) (In Figs & In Words)
01a	Supply of PCC pole 9 M long (W/L - 400 kg) as per SEB Specification (Size as per drg. TOP-230mmx100mm & BOTTOM 410 mmx 100 mm	20	No		
01b.	Supply of Rail Pole 45kg/M,12.8 m long	2	No		
2	7/4 mm STAY SET WITH TURN BUCKLE / BOW TIGHTENER/ BOW SET WITH TURN BUCKLES : Supply of stay set complete Galvanised with 19/20 mm dia x1.8 meter long stay rod, anchor plate size 45 cm x45 cm x7.5 mm thick, thimble, stary clamp, turn buckle,(20 mm x60 mm) /bow tightener, 7/4.00 mm dia. GI stary wire and strain insulator, clamps, hardware etc. as required	10	set		
3	Supply of 15mm GI pipe (GR-B)3 mtr long for protection of earth wire	80	mtr		
4	Supply of GI pipe (Gr.B) 75 mm dia	20	metre		
5	Supply of GI pipe (Gr.B) 50 mm dia	20	metre		
6	Supply of GI strip of size 50x6mm for earthing	250	metre		
7	Supply of GI strip of size 25x6 mm for earthing	125	metre		
8	Supply of CC spun pipe of 300 mm dia.	10	metre		
9	Supply of 3/4" PVC Flexible pipe	100	MTR		
10	Supply of 40mm dia (OD) GI pipe for Fitting luminaires	40	mtr		
11	Supply of earth electrode 40 mm dia. 3 Mtr long GI pipe (grade -B)	36	No		
12	Supply earth wire size 6.09 mm. Dia. GI wire	450	metre		
13	Supply of GI Earth Spike 1822 x 20 mm	80	No		
14	Supply of 8 SWG GI wire earthing.	600	mtr		
15	Supply of 14 SWG GI earth continuity wiring.	3300	mtr		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBAWEST TPS,CHATTISGARH				
	TENDER NO. PSER:SCT:KBA-E1016:09				
	SUPPLY OF EQUIPMENT & MATERIAL (SECTION-A) - REV-01				
Sl.No.	Description of Items	Qty	Unit	Unit Rate (In Rs.)	Total Amount (In Rs.) (In Figs & In Words)
16	Supply of HT danger notice plate of size 250 mm x 200 mm x 2 mm thk., made of mild steel plate painted with vitreous enamelled white on both side and inscription in Red colour on front side as required.	30	No		
17	Supply of sheet metal (16SWG) iron clad busbar chamber (W=500mmxD=150mm) on angle iron frame duly painted on wall with 4 Al bars (25mmx5mmx600mm) 500V, with adequate nos of holes drilled for connection of incoming & outgoing ckts, bars are fixed on porcelain insulators including supply of required hardwares for connection, fitted with DANGER board all complete.	5	NO		
18	Supply of structural steel [IS] for 11 KV accessories /support members/clamps/hardware	2	MT		
19	Earth pit as per IS:3043 including masonry work & cast Iron cover, GI pipe 50 mm dia 3 m long class B with funnel & holes in the body for watering, pit with alternative layer of charcoal & salt including supply of all materials complete.	10	no		
<u>20 i)</u>	<u>Supply of 250 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 250 A isolator & 2 Nos outgoing main switch -100A & 5 nos outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.</u>	<u>2</u>	<u>no</u>		
<u>ii)</u>	<u>Supply of 100 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 100 A isolator & 4 nos outgoing main switch - 100 A & 1 No outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.</u>	<u>1</u>	<u>no</u>		
21	Supply of MCB distribution board with sheet metal enclosure & front cover, indoor type, Incoming 32 amps DP MCB, outgoing 6 nos 16 amps SP MCBs (per phase) complete with internal busbars.	3	no		
22	Supply of MCB distribution board with sheet metal enclosure & front cover, indoor type, Incoming 100 amps TP MCB, outgoing 6 nos 32 amps SP MCBs (per phase) complete with internal busbars.	5	no		
23	Supply of Switchboard wooden 150x100 mm with matching cutouts and interconnections.	40	NO		
24	Supply of Switchboard wooden 200x300 mm with matching cutouts and interconnections.	40	NO		
25	Supply of Indicator lamp for Switchboard (Anchor / Pritam)	20	no		
26	Supply of 5/6 A piano type switch.	260	NO		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBAWEST TPS,CHATTISGARH				
	TENDER NO. PSER:SCT:KBA-E1016:09				
	SUPPLY OF EQUIPMENT & MATERIAL (SECTION-A) - REV-01				
Sl.No.	Description of Items	Qty	Unit	Unit Rate (In Rs.)	Total Amount (In Rs.) (In Figs & In Words)
27	Supply of 5/ 6 A flush type power socket.	145	NO		
28	Supply of Fuse - 5Amps / 6 amps	20	no		
29	Supply of Push button switch for call bell (box type)	10	no		
30	Supply of Calling Bell	10	no		
31	Supply of 15/ 16 A piano type switch.	44	NO		
32	Supply of 15/ 16 A flush type power socket.	41	NO		
33	Supply of 15/16 amps fuse & socket combined switch	15	no		
34	Supply of 230V 12" exhaust fan with external louvre	6	no		
35	Supply of local make approved quality Pedestal fan - 16" sweep.	20	NO		
36	Supply of CFL 2x36 W decorative false ceiling type, with box base & mirror type reflectors with fixing/ hanging material/ hardware.	40	NO		
37	Supply of CFL 2x36watts with box base & vitrious enamelled reflectors with fixing/ hanging material/ hardware.	10	NO		
38	<u>2x400W with lamp,control gear and all accessories.Model:Bajaj Equivalent of BJEF22CA.Aproved makes Bajai/Phillips/Crompton/GE(sodium vapour lamps)</u>	<u>20</u>	<u>NO</u>		
39	1x400W with lamp,control gear and all accessories.Model:Bajaj Equivalent of BJEF15 S.Aproved makes Bajaj/Phillips/Crompton/GE	20	NO		
40	Supply of 70 WATTS Bajaj make luminaire with lamp for outside all round illumination	20	no		
41	Supply of 3/4 " dia PVC conduit with bends/ tees/ ceiling roses with wooden base or boxes, fixing saddles/ clamps ECC tie wire etc.	1170	MTR		
<u>42</u>	Supply of 2.5mm Sqr. PVC wire for fixing of luminaries in open storage yard	<u>500</u>	<u>metre</u>		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBAWEST TPS,CHATTISGARH				
	TENDER NO. PSER:SCT:KBA-E1016:09				
	SUPPLY OF EQUIPMENT & MATERIAL (SECTION-A) - REV-01				
Sl.No.	Description of Items	Qty	Unit	Unit Rate (In Rs.)	Total Amount (In Rs.) (In Figs & In Words)
43	Supply of Cable 3.5 core x 95 sqmm Aluminium 1.1 KV grade PVC Armoured	300	mtr		
44	Supply of cable 3.5 core x 70 sqmm Aluminium 1.1 KV grade PVC Armoured	300	mtr		
45	Supply of 3.5 core 25 sqmm PVC, armoured Aluminium cable of 1.1 KV grade. As per IS-1554.	500	RM		
46	Supply of 1C x1.5 sqmm 650 V/ 1.1 KV grade PVC insulated copper wire.	1500	MTR		
47	Supply of 1Cx2.5 sqmm 650 V/ 1.1 KV grade PVC insulated copper wire.	900	MTR		
48	Supply of 1Cx4 sqmm 650V/1.1 KV grade PVC insulated Copper wire	500	mtr		
49	Supply of straight thru joint kit for 1.1 KV (LT) cables.				
a	3-1/ 2 core cables, 300 sqmm.	10	NO		
b	3-1/ 2 core cables, 120 sqmm.	10	NO		
c	3.5 core x 95 sqmm	10	NO		
d	3.5 core x 70 sqmm	10	NO		
50	Supply of single compression glands.				
a	Cable OD above 15 mm upto 30 mm.	20	NO		
b	Cable OD above 30 mm upto 40 mm.	20	NO		
c	Cable OD above 30 mm upto 40 mm.	20	NO		
d	Cable OD above 40 mm upto 50 mm.	20	NO		
e	Cable OD above 50 mm upto 60 mm.	30	NO		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBAWEST TPS,CHATTISGARH				
	TENDER NO. PSER:SCT:KBA-E1016:09				
	SUPPLY OF EQUIPMENT & MATERIAL (SECTION-A) - REV-01				
Sl.No.	Description of Items	Qty	Unit	Unit Rate (In Rs.)	Total Amount (In Rs.) (In Figs & In Words)
f	Cable OD above 60 mm upto 75 mm.	30	NO		
51	Supply of lugs.				
a	400/300 sqmm Aluminium.	30	NO		
b	120/ 95 sqmm Aluminium.	30	NO		
c	70/50 sqmm Aluminium	30	NO		
d	35/25sqmm Aluminium	30	NO		
e	6/4 sqmm Copper	30	NO		
f	2.5/1.5 sqmm Copper	30	NO		
	GRAND TOTAL FOR SUPPLY				

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST ,CHATTISGARH				
TENDER NO. PSER:SCT:KBA-E1016:09					
ERECTION OF EQUIPMENTS & ACCESSORIES { SECTION B (i) } - REV-01					
Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
1a.	Erection of PCC Poles :: Excavation (in all types of soil) including disposal of excess earth as per direction of engineer, for poles pit size 60 cms x 60 cms.x 1.5/1.8 Mtrs deep, erection of PCC poles [including supply & erection of anticlimbing devices] in true plumb, back filling the pit after erection with jhama brick bats of size 63 mm to 40 mm and down including watering, if necessary duly compacted in layers. The rate inclusive of excavation including disposal, supply of jhama bricks, labour, tools & tackles, etc all complete in the approved manner.	20	Nos.		
1b.	Erection of Rail Pole : Providing cement concrete foundation including excavation (In all types of soil) for poles pit size 60 cmsx60 cms.x 1.8/2 Mtrs deep in 1:3:6 cement concrete (1 cement, 3 coarse sand, 6 graded stone aggregate 40 mm nominal size) including form work , concrete foundation of 20mm thick all around the pole foundation and upto 20 cms above the ground level and tapered suitably into collar, hieght plinth duly plastered and with necessary curing and fishing, back filling etc. in the approved manner.	2	Nos.		
2	Dismantling ,removal &return to BHEL store of 9 to 12 mtr PCC/rail pole alongwith all accessories /stay set for 11KV /LT O/H lines with refilling of the void and disposal of rubbish	22	Nos.		
3	Erection of stay set complete with turn buckle, stay rod, anchor plate, thimble, staty clamp, bow tightener, staty wire and strain insulator, clamps , hardware etc. as required in cement concrete 1:3:6 (1 cement : 3 Coarse sand ; 6 Graded stone aggregate 40 mm nominal size) in foundation including excavation in all type of soil and back filling etc. as required including supply of cement & all other civil materials.	10	sets.		
4	Installation of 15 mm G.I. Pipe 3 meter long for protection of earth wire lead to earth electrode with suitable clamping arrangment and hardware.	80	mtr		
5	Installation [including welding, etc & supply of matching hardwares like nut, bolts, washers, etc] of GI strip size 50 x 6 mm for interconnecting the earth pits ion sub station, transformer netrual earthing etc.	250	Mtrs		
6	Installation of GI strip size 25 x 3 mm [including welding, etc & supply of matching hardwares like nut, bolts, washers, etc] for earthing AB swtich, DO fuse assembly etc,	125	Mtrs.		
7	Installation of GI pipe 50 mm dia including clamps, hardware etc.	20	Mtrs.		
8	Installation of GI pipe 75 mm dia including clamps, hardware etc.	20	Mtrs.		
9	Laying below ground in excavated trench (as per specification) of CC spun pipe of 300 mm dia. Wherever cable laid through pipe for road crossing purpose.	10	Mtrs.		
10	Installation of 3/4" PVC Flexible pipe	100	MTR		
11	Installation of 40mm dia (OD) GI pipe for Fitting luminaires	40	mtr		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST ,CHATTISGARH				
TENDER NO. PSER:SCT:KBA-E1016:09					
ERECTION OF EQUIPMENTS & ACCESSORIES { SECTION B (i) } - REV-01					
Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
12	Installation of earth electrode 40 mm dia. 3 metre long GI pipe directly driven into earth including earth excavation if required..	36	Nos.		
13	Installation of earthwire 6.09 mm dia including supply of clamps, cleats, etc	450	metre		
14	Erection of Earth Spike	80	No		
15	Installation of 8 SWG GI wire earthing.	600	mtr		
16	Installation of 14 SWG GI earth continuity wiring.	3300	mtr		
17	Fixing of HT danger notice plate on tubulat pole / DP structure of size 250 mm x 200 mm x 2 mm thk., made of mild steel plate painted with vitreous enamelled white on both side and inscription in Red colour on front side as required.	30	Nos.		
18	Fixing of sheet metal (16SWG) iron clad busbar chamber (W=500mmxD=150mm) on angle iron frame duly painted on wall with 4 Al bars (25mmx5mmx600mm) 500V, with adequate nos of holes drilled for connection of incoming & outgoing ckts, bars are fixed on porcelain insulators including supply of required hardwares for connection, fitted with DANGER board all complete.	5	NO		
19	Making the earth pit as per IS 3043 including earth/ massonary work, (size of electrode 50 mm dia. G.I. Pipe, 3 Meter long, class 'B'). Pit shall be filled with alternative layer of charcoal & salt. GI Pipe shall be with funnel with wire mesh for watering. Mansonry block C.I.cover coplete as per IS. All the earth pits are to be inter connectcd with GI strip of size 50x6 mm including all the material arranged by the contractor.	10	Nos.		
20	Installation of 5/ 6 A piano type switch.	260	NO		
21	Installation of 5/ 6 A flush type power socket.	145	NO		
22	Installation of Fuse - 5Amps / 6 amps	20	no		
23	Installation of 15/ 16 A piano type switch.	44	NO		
24	Installation of 15/ 16 A flush type power socket.	41	NO		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST ,CHATTISGARH				
TENDER NO. PSER:SCT:KBA-E1016:09					
ERECTION OF EQUIPMENTS & ACCESSORIES { SECTION B (i) } - REV-01					
Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
25	Installation of 15/16 amps fuse & socket combined switch	15	no		
26	Installation of 70 WATTS Bajaj make luminaire with lamp for outside all round illumination	20	no		
27	Installation of 2x400W HPSV luminaire with lamp, control gear and all accessories	20	no		
28	Insatllation of 1x400W luminaire with lamp, control gear and all accessories	20	no		
29	Installation of Fluorescent 2x36W decorative false ceiling type, with box base & mirror type reflectors with fixing/ hanging material/ hardware.	40	NO		
30	Installation of Fluorescent 2x36 watts with box base & vitrious enamelled reflectors with fixing/ hanging material/ hardware.	10	NO		
31	Laying of cable which includes excavation of trenchin all kind of soil,laying below ground providing sand layer below/above the cable ,brick lining both sides and above the cable and back filling as per specification				
i)	1.1KV LV grade PVC LT Cable				
a)	3.5CX300sqmm	1500	Mtrs.		
b)	3.5CX120sqmm	1500	Mtrs.		
c)	4CX6sqmm	3500	Mtrs.		
32	Laying of cable on existing structure ,wall , floor etc providing support /clamps etc				
i)	1.1KV LV grade PVC LT Cable				
a)	3.5CX300sqmm	1500	Mtrs.		
b)	3.5CX120sqmm	1500	Mtrs.		
c)	4CX6sqmm	3500	Mtrs.		
33	Termination of cable- armoured cables including glanding,drilling the hole in gland plate & making termination with double compression cable gland and copper lugs for aluminium armoured cable				
i)	1.1KV LV grade PVC LT Cable				

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TENDER NO. PSER:SCT:KBA-E1016:09					
ERECTION OF EQUIPMENTS & ACCESSORIES { SECTION B (i) } - REV-01					
Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
a)	3.5CX300sqmm	40	NOS		
b)	3.5CX120sqmm	20	NOS		
c)	4CX6sqmm	20	NOS		
34	Removal of existing buried cable after excavataion and back filling returning to store after coiling.				
i)	3-1/ 2 core cables, 300 sqmm.	1500	MTR		
ii)	3-1/ 2 core cables, 120 sqmm.	1500	MTR		
iii)	3-1/ 2 core cables, 95 sqmm.	600	MTR		
iv)	3-1/ 2 core cables, 70 sqmm.	600	MTR		
v)	3-1/2 core cables, 25 sqmm.	1550	MTR		
vi)	4 core cables, 6 sqmm	3500	MTR		
35	Removal of existing cable laid in open/ on tray in trench, returning to store after coiling.				
i)	3-1/ 2 core cables, 300 sqmm.	1500	MTR		
ii)	3-1/ 2 core cables, 120 sqmm.	1500	MTR		
iii)	3-1/ 2 core cables, 95 sqmm.	600	MTR		
iv)	3-1/ 2 core cables, 70 sqmm.	600	MTR		
v)	3-1/2 core cables, 25 sqmm.	1550	MTR		
vi)	4 core cables, 6 sqmm	3500	MTR		
36	Installation of 3/4 " dia PVC conduit with bends/ tees/ ceiling roses with wooden base or boxes, fixing saddles/ clamps ECC tie wire etc.	1170	MTR		
37	Installation of 3.5 core 25 sqmm PVC, armoured Aluminium cable of 1.1 KV grade. As per IS-1554.	500	RM		
38	Installation of cable 3.5 core x 70 sqmm Aluminium 1.1 KV grade PVC Armoured	300	mtr		
39	Installation of Cable 3.5 core x 95 sqmm Aluminium 1.1 KV grade PVC Armoured	300	mtr		

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TENDER NO. PSER:SCT:KBA-E1016:09					
ERECTION OF EQUIPMENTS & ACCESSORIES { SECTION B (i) } - REV-01					
Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
40	Installation of 1C x1.5 sqmm 650 V/ 1.1 KV grade PVC insulated copper wire.	1500	MTR		
41	Installation of 1Cx2.5 sqmm 650 V/ 1.1 KV grade PVC insulated copper wire.	900	MTR		
42	Installation of 1Cx4 sqmm 650V/1.1 KV grade PVC insulated Copper wire	500	mtr		
43	Installation of 2.5sqmm PVC insulated wire for fixing of luminaries in open storage yard	500	mtr		
44	Installation of Calling Bell	10	no		
45	Installation of Push button switch for call bell (box type)	10	no		
46	Installation, testing and commissioning of LT distribution out door kiosk with all the provision as per specification.				
	a] Type - A (Incomer 800 Amps, Outgoing 400 Amps - 2 Nos., Outgoing 200 A - 1 No & Outgoing 100 Amps - 2 Nos.)	8	Nos.		
47	Dismantling of LT Power Distribution Board(Type-A)issue from BHEL store	8	Nos.		
48	Fixing of luminaries/lights on rail/PCC poles with suitable fixtures/hardwares and wiring thereon in open storage (Necessary luminaries,hardwares,wires etc. shall be supplied by BHEL free of cost)	56	Nos.		
49	Fabrication, installation of various structural members such as cross arms, top adaptors, etc for poles, straight line DP structure/ sub-station DP structure/ DP structure for Line Tap-Offs, bracings member , clamps, bracket for gaurd wire or any other fabrication if required and not specified elsewhere in the tender specification etc; including supply of required matching hardwares and painting of one coat of red oxide & two coats of aluminium paint. This also includes the fabrication of other items as required.	2	MT		
50i)	Supply of 250 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 250 A isolator & 2 Nos outgoing main switch - 100A & 5 nos outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.	2	no		
ii)	Supply of 100 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 100 A isolator & 4 nos outgoing main switch - 100 A & 1 No outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.	1	no		
51	Installation of MCB distribution board with sheet metal enclosure & front cover, indoor type, Incoming 32 amps DP MCB, outgoing 6 nos 16 amps SP MCBs (per phase) complete with internal busbars.	3	no		
52	Installation of MCB distribution board with sheet metal enclosure & front cover, indoor type, Incoming 100 amps TP MCB, outgoing 6 nos 32 amps SP MCBs (per phase) complete with internal busbars.	5	no		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST ,CHATTISGARH				
TENDER NO. PSER:SCT:KBA-E1016:09					
ERECTION OF EQUIPMENTS & ACCESSORIES { SECTION B (i) } - REV-01					
Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
53	Installation of Switchboard wooden 150x100 mm with matching cutouts and interconnections.	40	NO		
54	Installation of Switchboard wooden 200x300 mm with matching cutouts and interconnections.	40	NO		
55	Installation of Indicator lamp for Switchboard (Anchor / Pritam)	20	no		
56	Foundation for Transformers and ACDBs, Kiosks, Lighting Mast etc as applicable				
a	Earth Work Excavation upto 0 to 2 m depth in all kinds of soil for foundation and backfilling	200	Cu M		
b	Providing and Laying of plain cement concrete of mix 1:4:8 using 40 mm and down size stone aggregate for foundation including shuttering ,curing , consolidation etc complete a sper standard specification and as directed by Engineer .The rate inclusive of cement and other civil materials	15	Cu M		
c	Brick Work in cm 1:6 (Min Strength 35 KG/SQ CM) for foundation , including providing bricks and all materials , labour , scaffolding , curing etc complete and as directed by Engineer	60	Cu M		
d	Providing and filling in with sand etc and compaction complete a sper standard specification as directed by engineer but excluding cost of reinforcements for foundation	90	Cu M		
e	Providing and laying RCC of mix 1:2:4 using 20mm down size stone agregate including mechanical mixing , vibration , curing form work and pockets etc as directed by engineer but excluding cost of reinforcements for foundation	10	Cu M		
f	Providing and plastering 12 mm thick on the exposed surface with cement mortar 1:6 overbrick and concrete surfaces, including preparing the surface ,raking joints ,scaffolding,curing ,cost of materials ,labour etc complete	145	SQ M		
g	Providing and Fixing of reinforcement including cutting , bending and fabrication of reinforcement using high tensile TOR steel as directed by Engineer including cost of all leads, lift and materials , labour and MS binding wire 18/20 gauge etc complete.	1	MT		
h	Supply,fitting & fixing of insertsand embedments like channel,angle,rails,plates etc all complete and secondary grouting (1:1:2) if required over the RCC.The rate inclusive of cost of all materials	0.5	MT		
57	Installation of local make approved quality Exhaust fan with louvers - 12 " sweep.	6	NO		
58	Installation of local make approved quality Pedestal fan - 16" sweep.	20	NO		
59	Installation of 30m high lighting mast (2X400W)	4	sets.		
60	Dismantling ,removal,returning to BHEL store of street lighting post alongwith all accessories /luminaries earthing rods etc with refilling of the void and of rubbish	4	sets.		
61	Fixing from roof truss with suitable clamp arrangement, flexible wire for connection between ceiling rose & fitting and commissioning of type HPSV luminaries medium bay industrial type, model BJMB1-150SV of BAJAJ or equivalent of PHILIPS/ CROMPTON.	180	NO		

JOB:	SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST ,CHATTISGARH				
TENDER NO. PSER:SCT:KBA-E1016:09					
ERECTION OF EQUIPMENTS & ACCESSORIES { SECTION B (i) } - REV-01					
Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
62	Fixing of sheet metal (16SWG) iron clad busbar chamber (W=500mmxD=150mm) on angle iron frame duly painted on wall with 4 Al bars (25mmx5mmx600mm) 500V, with adequate nos of holes drilled for connection of incoming & outgoing ckts, bars are fixed on porcelain insulators including supply of required hardwares for connection, fitted with DANGER board all complete.	5	NO		
63	End termination with double compression gland and lugs as indicated in supply part	8	NO		
64	Erection of straight thru joint kit for 1.1 KV (LT) cables.				
a	3-1/ 2 core cables, 300 sqmm.	10	NO		
b	3-1/ 2 core cables, 120 sqmm.	10	NO		
c	3.5 core x 95 sqmm	10	NO		
d	3.5 core x 70 sqmm	10	NO		
GRAND TOTAL PRICE FOR E&C					

JOB: SUPPLY, RECEIPT AT SITE, ALL HANDLING, TRANSPORTATION FROM STORE / STORE-YARD TO ERECTION SITE, ERECTION, TESTING AND COMMISSIONING OF EQUIPMENT AND SYSTEMS FOR CONSTRUCTION POWER DISTRIBUTION SYSTEM (LT KIOSKS ETC.) INCLUDING OBTAINING CLEARANCES FROM VARIOUS AUTHORITIES AS WELL AS O & M WORK FOR 1X500 MW KORBA WEST ,CHATTISGARH

TENDER NO. PSER:SCT:KBA-E1016:09

MAN POWER SERVICE FOR O&M OF THE SYSTEM AS PER SCC { SECTION B(ii) } - REV-01

Sl. No.	Description of Items	Qty	Unit	Rate	Total Amount (In Rs) (In Figs & In Words)
1	Supervisor experienced in 33/ 11KV substation & overhead line maintenance {on lumpsum monthly pay basis, with paid weekly off & 10 + 2 (optional) holidays in a calender year.	36	MAN-MONTH		
2	Skilled electrician having experience in 33/ 11KV substation & overhead lines (minimum 5 years experience or ITI with one year experience) alongwith necessary tools, insulation tapes as required for the work [8 hrs shift per day, with paid weekly off & 10 + 2 (optional) holidays in a calender year].	108	MAN-MONTH		
3	Semiskilled electrician/ helper (minimum 3 years experience) alongwith necessary hand tools & miscellaneous consumables like insulation tape/ emery papers/ drill bits etc as required for the work [8 hrs shift per day, with paid weekly off & 10 + 2 (optional) holidays in a calender year].	144	MAN-MONTH		
4	Unskilled helper alongwith hand tools as required for the work [one shift of 8 hrs per day, with paid weekly off & 10 + 2 (optional) holidays].	144	MAN-MONTH		
	GRAND TOTAL FOR O&M				

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Supply, receipt at site, all handling, transportation from store / store-yard to erection site, erection, testing and commissioning of equipment and systems for construction power distribution system (LT KIOSKS etc.) including obtaining clearances from various authorities as well as Operation & Maintenance work for 1x500 MW Korba West, Chattisgarh.	
Ref	1.0	Tender no PSER:SCT:KBA-E1016:09.
	2.0	BHEL's NIT vide reference no PSER:SCT:KBA-E1016:09, dated 12-05-2009.
	3.0	BHEL's TCN-01 vide reference no PSER:SCT:KBA-E1016:09:TCN-01, dated 02-06-2009.
	4.0	BHEL's TCN-02 vide reference no PSER:SCT:KBA-E1016:09:TCN-02, dated 09-06-2009.
	5.0	BHEL's TCN-03 vide reference no PSER:SCT:KBA-E1016:09:TCN-03, dated 16-06-2009.
	6.0	BHEL's TCN-04 vide reference no PSER:SCT:MWA-E1017:09:TCN-04, dated 17-06-2009.
	7.0	Other references (if any).

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website and in case of observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT and convey our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer strictly in accordance with tender instructions.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211691/ 23211798