



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:KLG-C1924:TCN-01

Date: 07-12-2018

Sub	Tender Change Notice (TCN)- 01.	
Job	Civil enabling job for establishment of new construction site of power plant involving major activities like construction of covered stores, toilet block, hard surfacing, roads, drains & culverts, fencing etc. alongwith electric al job for extension of construction power sources, general illumination of all the working areas, buildings and offices etc. including periodic electrical maintenance job for 1X120 MW BTG Project at TATA Steel, Kalinganagar, Odisha.	
Ref	1.0	Tender no PSER:SCT:KLG-C1924:18
	2.0	BHEL's NIT, vide reference no Ref: PSER:SCT:KLG-C1924:7179 Date: 22-11-2018.
	3.0	Other References, if any.

With reference to above, following point s/documents, relevant to tender, may please be noted and complied with while submitting the offer.

1. Revised Volume-IF-TCC-CML-Rev-01 is attached herewith, superseding Volume-IF-TCC-CML-Rev-00 issued earlier along with NIT (refer cl no 26.4). However, bidder shall go through entire volume before submitting their bid.
2. Revised BOQ cum Price Schedule, **VOLUME-III-PRICE SCHEDULE, REV-01** is attached superseding **VOLUME-III-PRICE SCHEDULE, REV-00** issued earlier along with NIT. **Bidders shall quote as per this revised Volume-III, Rev-01 only**. Bidders are also requested to submit a declaration in techno-commercial offer that they have submitted their price bid as per **REVISED Price Schedule** format.
3. Clause no. 35.0 of NIT of the subject tender is to be read as:
"For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/ WO against this NIT.
In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable."
4. Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
5. All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

Dy. Mgr (SCT)

Encl: As Above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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These special conditions shall be construed as part of tender document and shall be read along with general conditions of contract (GCC) and other volumes of tender. In case of any conflict or inconsistency between GCC, other volumes and these Technical conditions contract (TCC), the same shall be brought out by the bidder in writing to BHEL for clarification with stipulated date & before due date of submission of offer, failing which most stringent interpretation/ clause in favour of BHEL shall be adopted and the same shall be binding to the bidder.

1.0	PROJECT SYNOPSIS AND GENERAL INFORMATION
1.1	Name of the Owner: TATA Steel Limited. Address/Location: TATA Steel Kalinganagar, Jajpur, Odhisa. (about 100 Kms from the state capital, Bhubaneswar, and about 40 Km. from the district headquarters Jajpur). Nearest Railway Stn.: Jajpur- Keonjhar Road Railway station. Approx 25 Km from TATA Kalinganagar Plant. Approach Road: Via NH-16 & NH-53 from Bhubaneswar (approx. 100 KM.) Nearest Airport: Bhubaneswar.
2.0	SCOPE OF THE CONTRACT
2.1	The scope of works covers Construction of Covered Stores, RCC Sleepers, Bore Well, Toilet block, Hard Surfacing, Installation of bunk offices, Roads, Drains & Culverts, Fencing etc, Renovation of Office / Quarter, Misc. Other Civil Enabling job, Electrical Works for development of LT network for construction power, building and office wiring, general illuminations system, high mast lighting including providing Electrical O&M services etc. at CPP-2, TATA Steel -Kalinganagar Project at Odisha.
2.2	The works to be performed under this contract consist of providing all labour, supervision, material, scaffolding, construction equipment, tools and plants, temporary works, supplies including POL, transportation and all incidental items not shown or specified but reasonably implied or necessary for the proper completion of work in all respects. Testing of all materials, concrete, earthwork other allied works, preparation of bar bending schedules on the basis of construction drawings, preparation of fabrication drawings etc. are included on the rates of items of work.
2.3	All quality standards, tolerances, welding standards & other technical requirements shall be strictly adhered to. The Bidder shall fully apprise himself of the prevailing conditions at the proposed site, climatic conditions including monsoon pattern, soil conditions, local conditions and site specific parameters and shall include for all such conditions and contingent measures in the bid, including those which may not have been specifically brought out in the specifications.
2.4	The area of work shall be cleared of all vegetation, rubbish and other objectionable matter and materials remove, shall be burnt or otherwise disposed of as directed by the Engineer-in-Charge. No separate payment for these operations shall be made. The cost of all these operations shall be deemed to have been included in the unit rates rendered for the different items under bill of quantities.
2.5	The unit rates shall include all materials, equipment, fixtures, labour charges, required temporary works and everything whether of permanent or temporary in nature necessary for the completion of job in all respects.
2.6	The unit rates for various items of BOQ shall include all the stipulations mentioned in technical specifications and nothing extra over BOQ rates shall be payable.
2.7	The bidder should fully apprise himself of the prevailing conditions at the proposed site, climatic conditions including monsoon pattern, local conditions, stringent safety

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	norms, labour laws, requirement of statutory clearances (for LT Electrical system), soil strata and site specific parameters and shall include for all such conditions and contingent measures in the bid, including those which may have not been specifically brought out in the specifications.
3.0	SITE VISIT
3.1	Contractor should visit site and acquire full knowledge & information about site conditions prevailing at site regarding entry to site, safety regulations etc. and surroundings of plant premises together with all the statutory, obligatory, mandatory requirements of various authorities before submission of the bid. In line with the above, site visit confirmation will be required to be submitted by the bidder with the technical bid.
3.1	OPEN SPACE FOR OFFICE & STORAGE
3.1.1	Open spaces for temporary site office and storage area shall be provided inside the plant premises. Contractor has to make his own material storage yard, construction of temporary site office in the allocated area. Electricity and water for the work has to be arranged by the contractor at his own cost. Labour colony already constructed and developed by Customer is available inside the plant premises which may be allotted to vendor as per availability, on chargeable basis
3.1.2	Construction of necessary stores and storage of materials shall be in contractor's scope. Security of stores & work place shall be in Contractor's scope.
3.1.3	REMOVAL OF TEMPORARY FACILITIES
	When the Work is completed all temporary structures and facilities built by the contractor during progress of work shall be removed from the Site and the area shall be finished as per drawing / restored to its original condition.
3.2	WATER
3.2.1	Customer/BHEL shall provide source of water nearby to the plant area (approx.. 300.0 Mtr. away from the battery limit). Contractor has to extend the water line from the source point for construction & drinking water required for their work. Water supply will be at Free of cost. BHEL shall not be responsible for any inconvenience or delay caused due to any interruption of water supply. Contractor may make standby arrangement for water for which no separate payment shall be made by BHEL.
3.2.2	Contractor will have to arrange for storage of water to meet the day-to-day requirement. Bidder will ensure adequate supply of construction water to meet the requirement.
3.3	ELECTRICITY
3.3.1	Customer/ BHEL will Provide 3 Phase LT Power sources (Min. 03 nos Power source) for Construction Power and other electrical utilities. Contractor has to extend and distribute the Construction power network at different working zone like as: Boiler-I, Boiler-II, STG area, Store yard etc. For distribution of LT Power, contractor shall supply and install cables, MLDB, Portable distribution boards etc. however for receiving the LT power from the source point, 3 phase LT Kiosk shall be installed by the agency and the required LT Kiosks will be provided by BHEL. At Odisha state it is statutory requirement to obtain Electrical clearance from the local Electrical Inspector for charging 415V LT system and the same to be organized and arranged by the agency as it is covered under their scope of works. Statutory Fees of Electrical inspector shall be reimbursed by BHEL to the agency

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	<p>against submission of payment receipt however other incidental charges, if any for obtaining electrical clearances shall be borne by the vendor.</p> <p>Besides above scope of Electrical enabling job includes Electrical wiring of closed stores, offices, quarters including renovation of wiring job as required etc.</p> <p>Illumination of store yard, road and passages, offices, closed/semi-closed stores, erection and commissioning of Tower Lighting (Excluding construction of foundation) shall also be in the scope of electrical enabling job.</p> <p>O&M job covers the work scope of regular maintenance of 415V LT construction power system, electrical installations at offices, stores, area lights, high mast lighting etc. which will be carried out through deployment of qualified and experienced electrician and helper. O&M services will require to be undertaken by the agency after charging of 415 V LT construction Power system with due clearance of Electrical inspector and to this effect BHEL Construction Manager will issue a letter to the agency for starting O&M job and payment shall be made from the start date mentioned in that letter. However, required maintenance services prior to that has to be performed by the agency considering it within their normal scope of work.</p> <p>It may so happen that for requirement of job execution contractor may require to use Diesel Generator for which no separate payment shall be made by BHEL.</p> <p>Electrical power supply shall Free of Charges.</p> <p>BHEL shall not be responsible for any inconvenience or delay caused due to any interruption of power supply / variation in voltage level and no compensation for delay in work can be claimed by the contractor due to such non-supply on the grounds of idle labour, machinery or any other grounds.</p> <p>The bidder will have to procure & install adequate area illumination system during construction right from start of his work. This scope will include temporary pole lighting, portable lighting towers with sufficient DG back-up for area lighting at different working areas for execution of the work & safety of workmen within the quoted rate.</p> <p>The illumination should be such that minimum illumination requirement as specified in specification or any-where for general illumination is maintained.</p>
3.3.2	The contractor should ensure that the work in critical areas is not held up in the event of power breakdown. In the event of breakdown in the electric supply, if the progress of work is hampered, it will be the responsibility of the contractor to step up the progress of work after restoration of electric supply so that overall progress of work is not affected.
3.3.3	The bidder shall have to provide earth leakage circuit breaker at each point wherever human operated electrical drives / T&Ps are deployed.
4.0	TOOLS & PLANTS
4.1	All the tools and plants required for execution of the above work shall have to be provided by the contractor.

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	<p>At TATA Steel Kalinganagar Project it is strictly to be followed and practiced that all Tools & Plant/Machinery/Equipment including the crane and other lifting equipment as to be deployed at site shall be fit for the intended work and the age of all equipment shall be less than 3 years at the time of deployment of such equipment at site.</p> <p>In special cases, the contractor may deploy equipment & crane with age more than 3 years but within age of 5 years. The employer based on their discretion and evaluation of the situation and credentials, may grant permission to use equipment & crane having age more than 3 years but within 5 years for that specific purpose. All such equipment shall be immediately demobilized from site post the completion of such purpose for which specific approval was requested.</p> <p>Above norms are mandatory for Cranes and lifting equipment.</p> <p>At the time of making gate pass for T&P; it will be physically verified by TSK (TATA Steel Kalinganagar) authority and they may perform healthiness testing of the T&Ps for granting permission to enter inside the project premises. Testing charges of the T&Ps claimed by TSK shall be borne by the vendor. T&P which will be rejected by TSK authority and shall be failed in healthiness testing are not to be issued gate pass for entering inside the project premises.</p> <p>Approval for entering the T&P shall not relieve the responsibility of the contractor to ensure safe handling of equipment and taking necessary precautions to avoid any accident and damage to other equipment and personnel. Conventional Hydra is not allowed at TSK project and in place of hydra, Nextgen Pick and carry equipment: F15 shall be used.</p> <p>For working at height “Man-Lifter” shall be used.</p> <p>Only coupler type Scaffolding is allowed at TSK project for making any temporary structures of scaffolding.</p>
5.0	MATERIAL HANDLING & BHEL ISSUED MATERIAL
5.1.1	No consumable material will be issued by BHEL.
5.1.2	Procurement & handling of steel, cement and paints of total work will be in vendor's scope for which no separate payment will be given by BHEL.
5.1.3	It will be the responsibility of the contractor to submit computerized account of all such consignments of materials received by them, daily to BHEL.
5.1.4	The contractor shall solely be responsible for the safety & quality of material after it is handed over and issued to contractor by BHEL.
6.0	INSPECTION, TESTING AND INSPECTION CERTIFICATES
6.1	The engineer, his authorized representative and / or an outside inspection agency acting on behalf of BHEL / owner shall have access at all reasonable times to inspect & examine the materials & workmanship of the works during its manufacture and if part of the works is being manufactured or assembled on other premises or works, the vendor shall obtain permission for the engineer and for their authorized representative to inspect the works where manufactured or assembled. Necessary arrangement for carrying out inspection including supply of labour, IMTEs, area illumination and scaffolding, if required will be vendor's responsibility and same has to be carried out within the quoted price.

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6.2	To facilitate advance planning of inspection in addition to giving inspection notice the vendor shall furnish quarterly inspection program indicating schedule dates of inspection at customer hold point and final inspection stages. Updated quarterly inspection plans shall be made for each 3 consecutive months and to be furnished before beginning of each calendar month.
6.3	Before any plant / equipment leaves the place of manufacture, BHEL shall be given the option of witnessing inspections & tests for compliance with specifications & related standards. The vendor shall give the engineer / inspector 15 days written notice of any material being ready for testing. Such test shall be to the vendor's account except for the expenses of the inspector. The engineer / inspector, unless the inspection is waived will attend such tests within 15 days of the date on which the equipment is notified as being ready for test / inspection, failing which the vendor may proceed with test which shall be deemed to have been made in the inspector's presence and he shall forthwith forward to the Inspector duly certified copies of test reports.
6.4	The engineer or inspector shall within 15 days from the date of inspection as defined herein give notice to the vendor of any objection w.r.t. drawing / equipment / workmanship which in his opinion not in accordance with the specification / contract. The vendor shall either make modification as may be necessary to meet the said objection or explain to the engineer/ inspector giving reasons that no modifications are necessary to comply with the contract.
6.5	When the factory tests have been completed at the vendor's or sub-vendor's works, the engineer or inspector shall issue a certificate to this effect within reasonable time after completion of tests but if the tests are not witnessed by the engineer or Inspector the certificate shall be issued within 15 days of the receipt of vendor's test certificate by the engineer inspector. Completion of these tests or the issue of the certificates shall not bind BHEL to accept the equipment should it on further tests after erection be found not to comply with the contract.
6.6	In all cases where the vendor provides the tests at the premises of the vendor or any sub-vendor, the vendor except where otherwise specified shall provide free of charge such items as labour, materials, electricity, fuel, water, stores, apparatus and instruments as may be reasonably demanded by the engineer/ inspector to carry out effectively such tests on the equipment in accordance with the contract and shall give facilities to the engineer/ inspector to accomplish testing.
7.0	INSURANCE
7.1	BHEL shall arrange comprehensive MCE (marine cum erection) Insurance Policy for total project supply & services including balance of plant package covering transit risks & loss, destruction or damage during handling at Site, Storage, civil works ,erection, testing and commissioning up to trial operation completion of unit including theft, sabotage, fire, lightning and other natural calamities.
7.2	Contractor shall report to BHEL in writing any damages to equipment/components on receipt, storing, and during withdrawal of the materials from stores, in transit to site and unloading at place of work and during erection and commissioning till trial operation completion including handing over. 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.
7.3	The contractor will take necessary precautions/ due care to protect the material at Project site, while in his custody from any damage/ loss till the same is handed over to BHEL/ customer at Project site. For lodging/ processing of insurance claim the contractor will submit necessary documents. BHEL will reserve the right to recover

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	the loss from the contractor as detailed below in case the damage/loss is due to negligence/ carelessness on the part of the contractor. In case of theft of material under contractor's custody, the same shall be reported to police by the contractor immediately and copy of FIR and subsequently police investigation report shall be submitted to BHEL/ customer for taking up with insurance. However, this will not relieve the contractor of his contractual obligation for the materials in his custody.
7.4	In case the damage/loss/theft of materials are attributable to negligence/failure in discharging the duties and obligations of the contractor, the expenses incurred for repair/replacement of such components in excess of the amount realized from the underwriters, limited to Normal Excess (Deductible Franchise) shall be recovered from the contractor.
7.5	Other conditions of Insurance shall be as per relevant clause of GCC/SCC.
8.0	DEVIATIONS/ CLARIFICATIONS
8.1	Normally no deviation with respect to tender is acceptable to BHEL. However, in case of unavoidable circumstances, the bidder may submit their query for seeking clarifications of BHEL as per modality stipulated in NIT or may submit the same along with his offer as per prescribed schedule/ format without any ambiguity. Any assumptions, presumptions, deviations etc. indicated or implied anywhere by the bidder except those indicated in the deviation schedule/ format will not be recognized and will not form a part of consideration/ offer. In the absence of such filled-up schedule/ format it will be understood and agreed that the bidder's offer is based on strict conformance to the specification and no negotiation would be allowed in this regard. BHEL reserve the right not to recognize any/ all deviations submitted after opening of the bid.
9.0	DEWATERING
9.1	Contractor shall ensure at all times that ground of his work area & approach / access roads are free from accumulation of water, so that the materials are safe and the erection / progress schedule are not affected. No separate claim in this regard shall be admitted by BHEL. No separate payments for dewatering of subsoil, surface water or catchments water, if required, at any time during execution of the work including monsoon period shall be considered by BHEL.
10.0	TIME SCHEDULE/ COMPLETION PERIOD
10.1	The scope of Enabling job (Covered store + Civil + Electrical Construction Power) shall be successfully completed in all respect within 6 (six) months from date of start of work, as certified by Construction Manager, BHEL. Mobilization at site shall be done within 15 days from date of written intimation from BHEL. The exact date of start of work shall be reckoned based on certificate of Construction Manager, BHEL.
10.2	The scope of O&M shall be successfully executed for initial period of 18 (Eighteen) months from date of start of work, as certified by Construction Manager, BHEL.
10.3	PROVISION FOR EXTENSION for O&M Services: Contract Period for O&M services may be extended for a period of maximum 6 months by BHEL, at the same rate and terms & conditions, in case the work is not completed and the requirement exists, beyond the stipulated variation limit of the tender. However this shall be confirmed by BHEL in writing. In addition, if due to project's requirement, the service is required beyond the above stipulated extension period, the same shall be based on mutually agreed terms & conditions and rate.
11.0	TERMS OF PAYMENT
11.1	FOR ENABLING JOB

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11.1.1	<p>For all items of work as per Volume-III, Price Schedule, interim payment shall be limited to 95% of the gross value of interim bill on item rate basis. All admissible recovered/ adjustments etc. shall be made from the interim payable amount.</p> <p>The balance 5% shall be payable along with final bill subject to confirmation of full GST Credit to BHEL. Any Interest if levied thereon, for reasons elaborated in tax & duties clause of the tender and attributable to you, will be recovered from the Final Payment/ Retention amount.</p> <p>However, this 5%, retained from each RA bill, may be released against submission of a separate bank guarantee as per Performance Bank Guarantee format, to be kept valid till final bill & guarantee period, subject to (i) Receipt of certificate that all works are completed in all respects; (ii) Reconciliation of materials/ T&P/ MMD; (iii) Completion of final bill formalities (iv) Handing over to BHEL/ customer and (v) confirmation of full GST Credit to BHEL. Bank guarantee submitted towards security deposit cannot be utilized for this purpose. The security deposit will be refunded as per GCC of tender.</p>
11.1.2	Out of above mentioned 95 %, 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.
11.1.2.1	0.7 % shall be paid on compliance of housekeeping of vendor's working area and store/ office areas.
11.1.2.2	0.3 % shall be paid on compliance of general illumination of vendor's working area and stores, office area.
11.1.2.3	0.2 % shall be paid on compliance of applicable OHSAS requirement as per guidelines of BHEL/ PSER and as specified in the tender.
11.1.2.4	0.3 % shall be paid on compliance of applicable safety requirement as per guidelines of BHEL/ PSER and as specified in the tender.
11.2	TERMS OF PAYMENT / WORKING HOURS / LEAVES AS APPLICABLE FOR O&M CONTRACT:
11.2.1	Subject to any deduction which BHEL may be authorized to make under the contract, payment shall be made on the certification of the BHEL engineer at site, as explained hereunder.
11.2.2	For the scope of work as per price schedule, the monthly interim payment shall be limited to 95 % of the gross value of interim bill (RA bills) on item rate basis. All admissible recovery / adjustments etc shall be made from the interim payable amount. The balance 5 % shall be payable along-with final bill which shall be released on completion of all the works, smooth closing / winding up of the site and on certification of Construction Manager, BHEL. Your invoices shall be accompanied by progress report for the month (with details of man-days etc), duly signed by BHEL engineer. Payment shall be made within 45 days of receipt of correct invoice by BHEL site office. Payments will be made as per rates accepted.
11.2.3	You shall submit the RA bill for the period between 25th of the last month to 24th of the current month latest by 30th of the month to respective BHEL site and payment shall be made within 45 days by respective BHEL site subject to correctness and completeness of the invoice.
11.2.4	For the payment of staff deputed by you for this work, the months shall be

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	computed as comprising of number of days worked at respective Project site, which at present are 6 days a week and 10/ 12 hours per day. However, in special cases work may continue round the clock, or may continue on Sundays / holidays for which availability of quality supervisor personnel should be ensured if required by BHEL. However, no extra payment will be made for working beyond normal hours in such special cases. No compensatory off / leave will be granted in case of such working on Sundays / holidays / extended hours.
11.2.5	Casual leave will be admissible for personnel posted at site on full time basis subject to maximum 10 days in a year or on pro rata basis. In addition, Sundays and other holidays observed by BHEL site will also be admissible. BHEL shall not pay during the period of earned leave / sick leave to be availed by your personnel. However, if earned leave / sick leave exceeds 7 days in any one stretch, you will have to make suitable alternative arrangements.
11.2.6	For any leave other than casual leave as mentioned above, pro-rata deduction shall be made on monthly bill by BHEL site.
11.3	Contractor's RA bill, complete & correct in all respects, certified by BHEL engineer, shall be paid in the following manner.
11.4	BHEL site at its discretion may further split up the above percentages of break up and effect payment to suit the site condition, cash flow requirement, according to the progress of work.
11.5	Such payment as above shall be effected only on certification by BHEL against completion of each stage.
11.6	No bills including RA bills will be paid to individual consortium partners in case of consortium arrangement.
11.7	Applicable component of GST, which shall be claimed with each RA bill, shall be released to the successful bidder upon compliance of following:
11.7.1	Vendor declaring such Invoice in his GSTR-1
11.7.2	Receipt of Goods/ services and Tax Invoice by BHEL
11.7.3	Confirmation of payment of GST thereon by you on GSTN Portal
11.7.4	Above is subject to receipt of goods/ service and tax invoice thereof along with vendor declaring invoice in their return and paying GST within timeline prescribed for availing ITC by BHEL.
11.8	Vendor has to comply the BOCW norms as per details of activities noted vide relevant Annexure of this Tender.
11.9	It is to be strictly followed that monthly payment to all the workmen shall be made within 07 th day of each months.
12.0	MOBILISATION ADVANCE / INTEREST BEARING RECOVERABLE ADVANCE (IBRA)
12.1	No mobilization advance / IBRA will be paid to the contractor.
13.0	TAXES, DUTIES ETC
13.1	All taxes excluding GST & BOCW Cess (as specified elsewhere in the tender) but including, Charges, Royalties, any State or Central Levy and other taxes for materials if any obtained for the work and for execution of the contract shall be borne by successful bidder and shall not be payable extra by BHEL. Any increase of above at any stage during execution of contract, including extension of the contract, shall have to be borne by successful bidder contractor. Bidder's quoted/ accepted rates/ price shall be inclusive of all such requirements.
13.2	GST along with Cess (as applicable) legally leviable & payable by successful bidder as per GST Law, shall be paid by BHEL, extra. Hence, bidder shall not include GST

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	along with Cess (as applicable) in their quoted rates/ price.
13.3	Successful bidder shall furnish proof of GST registration with GSTN Portal covering the services under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by successful bidder on BHEL for this project/ work.
13.4	Since GST on output will be paid by BHEL separately as enumerated above, bidder's your quoted rates/ price should be after considering the Input Credit under GST law at bidder's end.
13.5	TDS under Income Tax shall be deducted at prevailing rates on gross invoice value from the running bills (RA bills) unless exemption certificate from the appropriate authority/ authorities is furnished.
13.6	TDS under GST shall be deducted at applicable rates on gross invoice value from the running bills (RA bills).
13.7	Bidder shall note that GST Tax Invoice complying with GST Invoice Rules (Section 31 of GST Act & Rules referred thereunder) wherein the 'Bill To' details shall encompass following. BHEL GSTN: As per attached GSTN Code table. Name: Bharat Heavy Electricals Ltd. Address: Shall be intimated later. Any change to above shall be notified by BHEL at appropriate juncture..
13.8	Successful bidder to intimate immediately on the day of removal of goods (in case of any supply of goods) to BHEL along with all relevant details and send a scanned copy of Tax Invoice to BHEL through following communication mode for enabling BHEL to meet its GST related compliances. Portal address. Shall be intimated later. and Email address – Shall be intimated later. Specific details of above shall be notified by BHEL at appropriate juncture.
13.9	In case of delay in submission of above mentioned documents on the date of despatch, BHEL may incur penalty/ interest for not adhering to Invoicing Rules under GST Law. The same will be liable to be recovered from successful bidder, in case such delay is not attributable to BHEL.
13.10	In case of raising any Supplementary Tax Invoice (Debit/ Credit Note), successful bidder shall issue the same containing all the details as referred to in Section 34 read with Section 31 of GST Act & Rules referred there under.
13.11	Successful bidder shall comply with the Time Limit prescribed under the GST Law and rules thereof for raising of the Tax Invoice. If any supply of goods is applicable, successful bidder shall also ensure prompt delivery of goods after despatch.
13.12	Bidder shall note that in case GST credit is delayed/ denied to BHEL due to delayed/ non receipt of goods and/ or Tax Invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reasons, not attributable to BHEL, GST amount shall be recoverable from successful bidder along with interest levied/ leviable on BHEL, as the case may be.
13.13	Successful bidder shall upload the invoices raised on BHEL in GSTR-1 within the prescribed time as given in the GST Act. Bidder shall note that in case of delay in declaring such invoice in your return and GST credit availed by BHEL is denied or

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	reversed subsequently as per GST Law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from the successful bidder along with interest levied/ leviable on BHEL.
13.14	<p>Way Bill: Successful bidder to arrange for way bill/ e-waybill for any transfer of goods for the execution of the contract.</p> <p>Successful bidder has to make their own arrangement at their cost for completing the formalities, if required, with Issuing Authorities, for bringing materials, plants & machinery at site for execution of the works under this contract, Road Permit/ Way Bill, if required, shall be arranged by successful bidder and BHEL will not supply any Road Permit/ Way Bill for this purpose.</p>
13.15	Any new taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties.
13.16	Benefits and/ or abolition of all existing taxes must be passed on to BHEL against new taxes, if any, proposed to be introduced at a later date.
14.0	IDLE CHARGES
14.1	Not applicable.
15.0	PRICE VARIATION CLAUSE
15.1	The price shall remain firm throughout the contract period including extension period, if any.
16.0	OVER RUN CHARGES / RATE REVISION
16.1	No overrun charges/ rate revision will be admissible/ applicable for this tender.
17.0	PROJECT MANAGEMENT/ CONSTRUCTION MANAGEMENT (Applicable for Enabling job)
17.1	HOUSEKEEPING
	<p>All construction debris and other garbage shall be continuously collected and disposed at an approved facility. At the end of each day, all waste material shall be removed from the construction Site and deposited at the approved allocated area. The approved procedures to manage waste shall be specified in the Contractor's waste management plan. All empty hazardous material containers shall be removed from the work area as soon as is practicable. All empty gas containers and bottles shall be returned to their storage area and secured properly.</p> <p>The Contractor's shall prepare a pest and vector control program to address specific site conditions, including a mosquito control program.</p>
17.2	PLANNING & MONITORING
17.21	The bidder shall prepare detail construction schedule (L-3) as per completion dates given in this document. This schedule must include all milestone and key activities for each subsystem / components in the areas of engineering (wherever applicable), procurement, manufacture (wherever applicable), excavation / construction / erection. This network must conform to the overall project schedule. The bidder should also ensure monitoring of these activities at least weekly basis to start with and on daily basis whenever required by BHEL.
17.2.2	The bidder shall also prepare progress report indicating progress on key activities, management summary for critical activities and list of actions requiring attention of BHEL. This schedule is to be preferably made in PRIMAVERA / MS PROJECTS, so that the same is compatible with BHEL's project management software.

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17.3	CONSTRUCTION CAMPS
	<p>The location of work places, camps, areas of storage and installation of works, compression, regulation and communication stations shall be located on levelled land, avoiding areas with non-cohesive soils to avoid erosive processes.</p> <p>Health conditions in the camp shall be controlled in order to prevent contamination of adjacent groundwater or surface water resources. Domestic sewage generated at the construction sites shall be eliminated by two systems of septic/absorption tanks or chemical toilets located on the sites.</p> <p>Solid combustible garbage shall be collected and secured daily, until disposal, to prevent the attraction of livestock, vermins and wild animals. Residue shall be disposed of, along with non-combustible garbage, in a disposal location approved by the Authorities.</p> <p>Upon abandonment, the camp site area shall be cleared of all trailers, piping, cable, insulation, lumber, blockage, metal wastes, etc., and re-graded according to the landscaping concept. These guidelines and procedures for the management of domestic and other waste shall be specified in a plan.</p>
17.4	PROGRESS REPORTING
17.4.1	The bidder shall submit daily, weekly and monthly progress reports for work force, materials reports, consumables (cement / steel / gases / electrodes) report and other reports as per pro-forma considered necessary by BHEL. In case of any failure on contractor's part to comply with this, BHEL may at its discretion, consider to withhold part payment against their RA bills.
17.4.2	The progress report shall indicate the progress achieved against planned with reasons indicating delays, if any, and shall give the remedial actions which the contractor intends to take to make good the slippage or lost time, so that further works again proceed as per the original program and the slippages do not accumulate and effect the overall program.
17.4.3	The daily work force reports shall clearly indicate the work force deployed, category-wise specifying also the activities in which they are engaged.
17.4.4	Weekly progress review meetings will be held at site during which actual progress during the week vis-à-vis scheduled program shall be discussed or actions to be taken for achieving targets. For discussions, the contractor shall present program of subsequent week. The contractor shall constantly update/revise his work program to meet the overall requirement.
17.4.5	Periodic progress reviews on the entire activities of execution in respect of supply and works in scope of bidder will be held once in a month at Kolkata / site. These meetings will be attended by reasonably higher officials of the contractor and will be used as a forum for discussing all areas where progress needs to be speeded up. The contractor shall be further responsible for ensuring that suitable steps are taken to meet various targets decided upon such meetings.
17.4.6	During construction contractor shall take an average twenty colour digital photograph / slides each month (not less than four per week) of the works during progress. In case of failure in providing such photograph in each month, an amount of Rs. 10000 per month shall be deducted from contractor's RA bill.
17.4.7	Successful bidder has to provide for electronic/ computerized storing and re-production / printing / plotting of various data, log sheets, protocols, measurements etc. These may be stored in CD (as per requirement) and handed over to BHEL as per requirement.
17.4.8	Skill Test to be done for the worker before issuing Gate Passes.
17.5	PHOTOGRAPHS

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	The Contractor shall furnish to the Employer soft copies in .jpeg or .pdf format of progress photograph taken to show monthly progress status and equipment installation. Each photograph shall show upon its face, the date, the Contractor's name, and description of the view taken. Photographs shall be taken of each assembly or sub- assembly to indicate the progress of the Work. Additional photographs shall be taken when and where required as directed by Employer and/or the Engineer.
17.6	SITE ORGANIZATION
17.6.1	The contractor shall maintain a site organization of adequate strength in respect of manpower, construction machinery and other implements at all time for smooth execution of the contract headed by a competent construction manager for site operations with sufficient level of authority to take site decisions. The vendor will submit organization chart (showing the name of SITE-IN-CHARGE) with individual bio-data indicating various levels of experts to be posted for supervision in the fields of supervision and execution, quality, material management, planning, safety, etc. The organization shall be reinforced from time to time, as required to make up slippage (if any) from the schedule without any commercial implication to BHEL. The organization chart is to be submitted within 10 days from the date from start of work.
17.6.2	Apart from the qualified and competent Site-in-charge, following (minimum) engineering manpower with power plant construction background to be deployed at site by the successful vendor for their day to day supervision etc.
17.6.2.1	Qualified safety officers along with safety steward (exclusively for safety supervision jobs) shall be deployed at site throughout the execution period. Qualification of Safety officer will be Diploma in Safety and both the safety officer and safety steward will be qualified and well experienced in safety job. Standard norm as applicable at TSK site is for maximum 30 workmen 1 safety steward shall be available.
17.6.2.2	Engineer & Supervisors for quality inspection.
17.6.2.3	Site supervising engineer and supervisors for civil works
17.6.2.5	Deputation of above man-power shall be jointly decided at site in line with construction schedule.
17.6.2.6	Engineer / supervisor for other functions like store & purchase, material management, fin, administration etc. are to be provided as per site requirement and not considered above.
17.6.3	In the event of non-deputation of engineer/ supervisor by the bidder as per above agreed schedule, BHEL shall reserve the right to deduct Rs. 50,000/- per month for engineer, Rs. 40,000/- per month for the supervisor / safety officer / safety steward from RA bills. Further induction of manpower regarding site supervisor & site engineer will be decided at site as per requirement without any financial implication.
17.6.4	BHEL reserves the right to reject or approve the list of personnel proposed by the contractor. The persons whose bio-data have been approved by BHEL will have to be posted at site and deviation in this regard will not be permitted unless specific & reasonable justification is made.
17.6.5	In addition to above, a well experienced qualified engineer to be designated, as 'Project Co-coordinator', shall be deployed by the contractor. Such engineer shall have adequate exposure on the job and shall remain fully involved in all planning activities, guidance etc. to contractor's own team during the complete execution period of contract.
17.6.6	The contractor should also submit to BHEL for approval a list of T&Ps along with their fitness certificates. The tools & tackles shall not be removed from site without

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	written permission of BHEL.	
17.6.7	The contractor should also submit network programs for the erection of various items. These networks shall show the Customer / BHEL hold points, which have to be cleared by Customer / BHEL, or their authorized representatives before further erection can take place. These programs for the erection would clearly identify responsibilities of the contractor and Customer / BHEL. It is the responsibility of the contractor to get the Networks approved by BHEL within four weeks of the date of finalization of award of work/ placement from start of work.	
18.0	CONSTRUCTION SCHEDULE (FOR ENABLING JOB)	
18.1	Entire work shall be carried out in accordance with the broad construction schedule given below, within the stipulated completion period. Within 30 days from start of work, the contractor shall discuss with BHEL site engineer & furnish detail construction schedule (L-3/ L-4) indicating all milestones on the basis of major activities and get it approved from BHEL engineer. This schedule will undergo review and based on progress vis-à-vis project requirement, contractor shall have to submit revised schedule for approval of BHEL. Major Milestones given below	
	Description	Completion period from date of start of work
18.1.1	Installation of bunk office for BHEL officials & Construction of Toilet Block	3 months
18.1.2	Construction of Covered Store	4 months
18.1.3	Hard Surfacing of yard, RCC Sleepers, Roads, Drains & Culverts, Fencing etc.	5 months
18.1.4	Completion of Electrical Works	6 months
18.2	The contractor shall plan his work in such a manner so as to meet the overall schedule, in consultation with BHEL, Engineer.	
18.3	Contractor shall submit daily work program based on construction schedule. Deferment of above schedule is not acceptable. Contractor will adhere to schedule and resource planning to be augmented to ensure completion as per schedule.	
18.4	Periodic progress reviews on the entire activities of execution in respect of supply & works in scope of contractor will be held once in a month at Kolkata / site. These meetings will be attended by reasonably higher officials of the contractor and will be used as a forum for discussing all areas where progress needs to be speeded up. The contractor shall be further responsible for ensuring that suitable steps are taken to meet various targets decided upon such meetings.	
19.0	GUARANTEE / WARRANTY (FOR ENABLING JOB)	
19.1	The contractor will be responsible for the quality of workmanship, quality of materials / items and design for which the contractor is responsible.	
19.2	Guarantee period shall be 12 months from the date start of guarantee period as per relevant clause of GCC. Commencement of guarantee period shall be from the date of completion of work under the contract as certified by BHEL	
20.0	SECURITY DEPOSIT	
20.1	Security deposit shall be applicable as per relevant clause of GCC for both the parts (Enabling job and O&M Services).	
21.0	CONTRACT PRICE	
21.1	Bidder shall quote their rates strictly in accordance with prescribed Price Schedule, Volume-III (latest revision). Evaluation shall be done on total quoted price. However separate orders shall be placed for Enabling job and O&M job as per respective components of Price	

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	Schedule.
21.2	The quantities of various items mentioned in the price schedule, Volume-III are approximate, based on very preliminary information and may vary to any extent or to be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of the work executed under any part of the this contract including extra items, if any, but excluding any price variation, if any, remains within (+/-) 15% (plus / minus fifteen percent) of the awarded price of LOI.
22.0	QUALITY CONTROL & QUALITY ASSURANCE
22.1	Contractor's engineers & supervisors shall be adequately qualified and also inclined to do a quality job. The quality assurance engineer shall co-ordinate all aspects of quality control, inspection, implementation of quality assurance procedures laid down in Quality Plan and technical specification by BHEL. He shall fill up quality assurance log sheets / formats and submit to BHEL for joint inspection and acceptance. The contractor shall fill up, maintain & preserve the quality records in computerized media. BHEL's authorized representative shall be given free access at all time to such quality related records etc. for inspection, review etc.
23.0	QUALITY ASSURANCE PROGRAMME
23.1	The contractor shall arrange for suitable quality assurance programme to control all activities pertaining to the scope of work, as necessary. Such programs shall be outlined by the contractor & shall be finally accepted by BHEL. A quality assurance programme of the contractor shall generally cover the following
23.2	Organization structure and qualification data for key personnel of the contractor for the management and implementation of proposed quality assurance programme
23.3	The procedure for source inspection, incoming raw material inspection, verification of material purchased etc.
23.4	System for maintenance of records.
24.0	GENERAL REQUIREMENTS – QUALITY ASSURANCE
24.1	All materials, components and equipment covered under the specification shall be procured, manufactured, erected, commissioned and tested, as applicable, at all stages as per comprehensive quality assurance program. An indicative program for inspection / test, to be carried out by the contractor, for some of the major items is given in the respective technical specification.
24.2	Field quality plan will detail out the quality practices and procedures etc. to be followed by the contractor's site quality control organization, during various stages of site activities from receipt of material / equipment at site.
24.3	BHEL reserves the right to carry out quality audit and quality surveillance of the systems and procedures of contractor's quality management. Contractor shall provide all necessary assistance to enable BHEL to carry out such audit.
24.4	Quality audit / approval of the results of test & inspection will not prejudice the right of BHEL to reject an equipment service not giving desired performance and shall not in any way limit the liabilities and responsibilities of the contractor in earning satisfactory performances of equipment/ service as per specification.
24.5	Repair / rectification procedure to be adopted to make any job acceptable shall be subject to the approval of BHEL.
24.6	All the latest relevant codes as per technical specification should be available with the contractor at site within 15 days from the date of placement from start of work or otherwise specified by Construction Manager/ Project Manager, BHEL.
25.0	WORK & SAFETY REGULATIONS
25.1	At TATA Steel Kalinganagar project stringent HSE (Health, Safety and

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	<p>Environment) norms are applicable and the vendor is liable to strictly follow the same and it is to be given the prime importance.</p> <p>Bidders are requested to gather knowledge of all the applicable HSE norms as applicable and practiced at TSK site prior to submitting their bid.</p> <p>Any violation in HSE norms may invite serious consequences with the imposition of penalty, rejection of gate Pass etc. by Customer. BHEL will neither intervene for any decision taken by Customer for violation of HSE norms neither compensate any financial loss or penalty as to be imposed by TSK on the contractor.</p> <p>For reference of the applicable HSE norms at the TSK project, bidders are requested to go through the attached document Appendix I to V of this Tender. These documents are for assumptions of HSE norms at TSK project, applicable HSE norms will get knowledge of the vendor when they will be deployed and execute their job at site.</p>
25.2	<p>It is imperative on the part of the contractor to join and effectively contribute in joint measures such as tree plantation, environment protection, contributing towards social up-liftment, conversion of packing woods to school furniture, keeping good relation with local populace etc.</p>
25.3	<p>First aid facility at site to be arranged by the vendor at his own cost.</p> <p>The paramedical equipped facilities will be shared by various other BHEL-agencies working at site on chargeable basis (actual cost distributed among the BHEL E&C vendors present at site on pro rate basis). The subject facility will have to be strengthened as per the requirement during peak work progress at site.</p> <p>One Ambulance with operator shall be made available at project site for round the clock services which shall be arranged and maintained either by BHEL or the Main job agency of BHEL. All the BHEL sub-contractors at TSK Project shall share the expenditure of maintaining this Ambulance services proportionately and BHEL's decision about the contribution amount by the respective sub-agencies will be binding and final.</p> <p>No medical facility within / near the site shall be provided by BHEL. However, Hospital maintained by Customer for this project may be availed for medical treatment and health check-up purpose on payment basis by the contractor.</p>
25.4	<p>The sub-contractor shall make his field engineers/supervisors fully aware of the fact that they keep track with the site workmen for their behavior and compliance of various HSE requirements. Safety lapses / defects at project construction site shall be attributable to the concerned job supervisor / engineer of the sub-contractor (who remains directly responsible for safely executing field works). For repeated HSE violations, concerned job supervisor / engineer shall be reprimanded or appropriate action, as deemed fit, shall be initiated (with an information to TSK) by the concerned sub-contractor.</p> <p>Sub-contractor shall initiate cautioning for safety violations through verbal warning to the worker/employee during his first HSE violation. A written warning shall be issued on second violation and specific training shall be arranged / provided by the sub-contractor to enhance HSE awareness/skill including feedback on the mistakes/ flaws. Any further violation of HSE stipulations by the erring individuals shall call for his forthright debar from the specific construction site. A record of</p>

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	<p>warnings for each worker/employee shall be maintained by the sub-contractor, like by punching their cards / Gate passes or by displaying their names at the Project entry gate. Warnings, penalizations, appreciations etc. shall be discussed in HSE Committee meetings by site Head of the BHEL and TSK.</p> <p>Road services for delivering goods shall be available between 8 AM to 4 PM on working days except Saturday, Sunday & Holiday at TSK Project.</p> <p>Gate security officials of TSK Project shall be contracted between 9 AM to 1 PM and 2 PM to 5 PM for obtaining entry passes.</p> <p>For Gate Pass preparation of staff and workmen it will take around 10 days time for completion of all the required formalities as per stipulated norms of TSK Project and therefore vendors need to initiate action for gate pass issuance accordingly so that site works will not suffer due to non-issuance of Gate Passes.</p> <p>Some of the mandatory requirements for issuance of Gate Pass is noted hereunder:</p> <ol style="list-style-type: none"> Bank Account No. of the person. Workmen have to pass the skill Test as to be taken by TSK authority AAadhar No of the person Physical fitness certificate issued from TSK Medical Centre. (Health Check-up to be done on chargeable basis)
25.5	<p>All workers are prohibited to use mobile phone inside plant. Mobile handsets are to be deposited at some designated place before start of work by the workmen. Gate Passes as to be issued to the workmen will be electronically GPRS controlled for restricting their movement out of their designated working zone. Violation of this norms is serious violation of safety regulations.</p>
25.6	<p>Only Armored type cables are allowed to use inside the plant premises. Welding machines shall mandatorily be equipped with VRD facility for use inside the TSK project. Welding cables should be without any joints for using in job.</p>
25.7	<p>Cable for temporary purpose shall be laid either at Underground or Overhead as per convenience and instruction of BHEL/TSK. Standard norms for laying of underground cable shall be followed and cable route tags to be provided on the laying route as well as for overhead cables it will be laid through "U" clamp supports fixed on MS Pipe erected along the path of cable and maintaining suitable height so that laid cable should not be at normal reach of people and suffer any work progress.</p>
25.8	<p>For use of single phase electrical power, proper arrangement of "Neutral" point has to be made through MLDB.</p>
25.9	<p>Only 4 wheelers are allowed inside plant premises. Cycle and any two wheelers are not allowed inside the plant premises. 4 Wheeler movement inside the project is restricted by the speed limit and speed of vehicle is monitored by traffic control system.</p>
25.10	<p>For the stored materials at outdoor locations; indicative barriers are to be provided by using barrier-indicator and it is included in the scope of vendor including supply of required items.</p>
25.11	<p>Vendors are allowed to establish their temporary site office inside the plant through porta cabin / Bunk House. No construction of building is allowed for making site offices.</p>

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25.12	Proper sanitation arrangement shall be made for the staff and workmen at site by the contractor.
25.13	Cleanliness and housekeeping to be done on regular basis and it is the responsibility of the vendor.
25.14	Further details of applicable HSE norms shall be as per HSE clause of Tender SCC.
26.0	LIQUIDATED DAMAGE / PENALTY
26.1	Intermediate Milestones
26.1.1	In case delay in achieving the Specific activities as mentioned in Clause 18.1.1 & 18.1.2 above, is solely attributable to the contractor, 0.5% per week of executable contact value (net off GST component), limited to maximum 2% of executable contact value (net off GST component), will be withheld.
26.1.2	In case delay in achieving the specific activity as mentioned in Clause 18.1.3 above, is solely attributable to the contractor, 0.5% per week of executable contact value (net off GST component), limited to maximum 3% of executable contact value (net off GST component), will be withheld.
26.1.3	Amount already withheld, if any against slippage of clause 18.1.1, 18.1.2, 18.1.3 above, shall be released only if there is no delay attributable to contractor in achievement of Specific Activity as mentioned in clause 18.1.4 above.
26.1.4	Amount to be withheld on account of slippage of identified intermediate activities shall be withheld out of the payable amount related to those specific activities and balance amount (if any) shall be withheld @10% of RA Bill amount from subsequent RA bills.
26.1.5	Final deduction towards LD (if applicable), on account of delay attributable to contractor shall be based on final delay analysis on completion / closure of contract. Withheld amount, if any due to slippage of identified intermediate activities shall be adjusted against LD or released as the case may be. GST (as applicable) will be charged extra on the Final LD amount.
26.1.6	In case of termination of contract due to any reason attributable to contractor before completion of work, the amount already withheld against slippage of intermediate milestones shall not be released and be converted into recovery.
26.2	Apart from the LD specified above and other recoveries specified elsewhere in the tender, If the completion of work is delayed beyond the overall completion period as referred in cl. no. 18.1 above due to reasons attributable to the contractor, they shall pay to BHEL as penalty a sum @ 0.5 % of contract price along with applicable GST for per week of delay or part thereof subject to a maximum of 10 % of total contract price.
26.3	LD APPLICABILITY FOR O&M CONTRACT: Since time is the main essence of the contract, the deployment of manpower is to be made within the time limit specified in this tender. In case the manpower is deployed beyond the period specified in the contract, BHEL will have no obligation to accept the same and reserves the right to levy liquidated damages at the rate of 0.5 % (half percent) of the awarded contract value along with applicable GST for each week of delay or part thereof without prejudice to any other relief or compensation due to BHEL under any other conditions of the order subject to a maximum limit of 10 % of total contract value. In case of delay in deployment of manpower at site, for reasons not attributable to BHEL, the Liquidated Damages clause shall be strictly enforced, unless extension of man-power deployment date is granted by the concerned BHEL authority at TSK Project site.
26.4	In case of LD recovery, the applicable GST shall also be recovered from

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	vendor/Contractor/ suppliers.
27.0	PERFORMANCE BOND
27.1	Performance bond is not applicable.
28.0	CERTIFICATE TOWARDS COMPLETION
28.1	The work under the scope of the contractor shall be deemed to have been completed in all respects only when so certified by BHEL / owner. The decision of BHEL in this regard shall be final and binding on the contractor.
29.0	BROAD SCOPE OF OPERATION AND MAINTENANCE (O&M)
29.1	The successful bidder has to maintain construction power system after satisfactory commissioning, handing over to BHEL to ensure continuous availability to meet the construction power requirement by all agencies of BHEL working at site. It should be noted that the construction activities of the project would be dependent on the availability of this system. Hence the consistent and continuous availability of the system is of paramount importance. Successful bidder shall, therefore, endeavor to ensure highest availability of the system by proactive / periodic checking and replacement of necessary parts / equipment with minimum breakdown.
29.2	Operation & maintenance of total construction power network consisting of 415 V LT Kiosk, MLDB etc. with all necessary cables, wires, support structures, hardware, MCCBs, protection system, metering equipment (if any), conductors, etc, general illumination system during construction, tower lighting (lighting mast), temporary pole lighting, temporary lights at different floors/ areas till the permanent illumination system is established.
29.3	For regular day to day as well as breakdown maintenance of the entire system for the period of O&M of construction power system on round the clock basis, necessary provision for experienced supervisor, licensed electrician, helper, T&Ps, etc, replacement/ rectification of item & components to restore the system for making the system operational is to be made by the successful bidder within the accepted rate/ price.
29.4	The successful bidder scope also includes obtaining necessary approvals from statutory authorities.
29.5	The successful bidder shall operate and maintain the system in three-shift operation for uninterrupted operation as per the instruction of BHEL engineer. The supervisor should possess supervisory license for LT system. Electricians should have valid license for handling LT network system. 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.
29.6	Various parameters of the system, eg recording of loads, transformer's oil temperature and oil level in transformers, healthiness of the system are to be recorded on day to day basis.
29.7	During this period, various reports have to be generated and records to be maintained as per the requirements of BHEL. The engineer will specify the formats for these at site.
29.8	Sub-contractors of customer and BHEL will draw power from LT distribution boards at various locations. Successful bidder shall co-ordinate and assists them in terminating the cables and other work related to drawl of construction power by these agencies.
29.9	While operating the system, successful bidder shall intimate BHEL/TSK engineer

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	immediately on noticing any abnormalities, which requires immediate attention.
29.10	All work, including any preventive and breakdown maintenance work in the system shall be taken up only after obtaining necessary permit/ clearance from BHEL/TSK engineer.
29.11	BHEL reserves right to terminate the contract any time without assigning reasons.
29.12	Maintenance of 415 volt distribution system, LT Kiosk, MLDB, electrical maintenance of BHEL office/ store, etc and temporary Illumination arrangement in various areas.
29.13	The successful bidder shall submit maintenance plan for transformer, associated accessories and in accordance with current Indian electricity rules and shall get it approved from BHEL site engineer. The successful bidder shall be provided with all spares (free of cost) required for preventive maintenance and break down maintenance of all equipment under the scope of work. The successful bidder shall preserve the spares till the same is fully consumed or till the contract is valid. BHEL shall provide, as free issue, the spares required for the preventive and breakdown maintenance of equipment provided by BHEL.
29.14	During the maintenance period, the successful bidder shall provide all necessary spares including transformer oil, etc for the system, as required, on actual reimbursement basis or BHEL supplied items as free issue.
29.15	During the maintenance period, the successful bidder shall provide all necessary spares, MCB, MCCB, ELCB, cable gland/ lugs, lamps, cables including transformer oil, etc for the system, as required. Payment for the same shall be made on actual basis/ or the same shall be supplied by BHEL as free issue item.
29.16	However, if requirement of such spares is necessitated due to the fault of the successful bidder, the same shall have to be supplied by the successful bidder at their own cost.
29.17	Planned and preventive maintenance:
29.17.1	The main activities to be carried out during the planned and preventive maintenance are generally as under:
29.17.2	General inspection and cleanliness of the entire system.
29.17.3	Insulation resistance measurement, testing of oil samples for breakdown values. In case, the IR value / BDV is less than the required; the successful bidder shall inform BHEL
29.17.4	Topping up of oil in the transformers. BHEL shall provide oil for this purpose as free issue. Required filtration along with deployment of oil filtering m/c, to achieve desired BDV, is excluded from the scope. However, necessary assistance for this is included in the scope.
29.17.5	Noting down the defects noticed in the system in the period between shutdowns. These shall be brought to the notice of BHEL/TSK engineer. These shall be attended to during the next available planned shutdown and got verified from BHEL/TSK.
29.18	Planned shut downs
	The Construction Power system, depending on the site conditions, will be taken for planned shutdown in a phased manner. Detailed plans of shutdown of the system

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	for regular maintenance shall be drawn in consultation with BHEL/TSK.
29.19	<p>Breakdown maintenance</p> <p>Successful bidder shall attend the breakdown of the system most expeditiously and bring the system back to normalcy at the earliest, as per instructions of BHEL/TSK. Successful bidder shall have to deploy additional resources for rectifying the faults within the shortest possible time. Successful bidder may note that no compensation shall be payable for deployment of such additional resources.</p>
29.20	Successful bidder shall provide all resources labour, T&P (as per relevant annexure), consumables (as per relevant annexure), etc for O&M of entire system. However, BHEL shall provide as free issue equipment/ spare parts required for preventive & breakdown maintenance of entire system and components/ materials required for preventive & break down maintenance of BHEL installations (ie office, stores shed, open stores yard).
29.21	Maintenance of electrical installations of BHEL stores sheds & yards/ office sheds, etc and temporary area illumination.
29.22	Successful bidder shall be responsible for maintenance of electrical installation in BHEL office sheds, site cabins, storage yard, stores sheds (semi closed & closed) & lighting masts and temporary area illumination. The nature of works to be carried out will be such as trouble shooting, attending the fault/ repairing/ replacement of defective parts/ devices. BHEL shall provide necessary electrical items/ spares free of charge required for this type of maintenance work. Regular tree/ grass cutting for the cable route & cleaning of installation locations of electrical panels (like: LT Kiosk, MLDB etc.) is also included in the scope of work.
29.23	For operation & maintenance, successful bidder, in addition to providing requisite T&Ps, consumables, manpower, etc. to carry out the job, shall also be equipped with shock treatment chart, discharge rod, fire extinguishers, LT gloves, fire bucket with stand, first aid box and shall maintain the same for day-to-day as well as for any exigency.
29.24	For carrying out day to day maintenance job the successful bidder shall provide all the necessary maintenance related consumable item as per indicated item list vide Annexure-III of this Tender document. Bidder shall quote their price by considering this cost.
29.25	Skill Test to be done for the deployed personnel in O&M job before issuing Gate Passes.
29.26	All the deployed T&P, instruments etc. for O&M job shall be fitness tested / calibrated and the certificates for fitness/calibration must be valid during the entire deputation period for which necessary action in advance shall be taken up by the successful bidder.
30.0	EXTENSION OF TIME FOR COMPLETION
30.1	If the completion of work as detailed in the scope of work gets delayed beyond the contract/ completion period due to reasons not attributable to contractor, the contractor shall make request for an extension of the contract and BHEL at its discretion may extend the contract. However such extension shall not entitle the vendor for price revision or price compensation as this being FIRM price contract.
30.2	Based on review of agreed & jointly signed L-2 / construction schedule (as enumerated in the tender), the balance work at the end of original contract period

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	less the backlog attributable to the contractor shall be quantified, and the number of months of 'Time extension' required for completion of the same shall be jointly worked out. Within this period of 'Time extension', the contractor is bound to complete the portion of backlog attributable to contractor. Further 'Time extension' or 'Time extensions' at the end of previous extension shall be worked out similarly.
30.3	However, if any 'Time extension' is granted to the contractor to facilitate continuation of work and completion of contract, due to backlog attributable to the contractor alone, then it shall be without prejudice to the rights of BHEL to impose penalty / LD for the delays attributable to the contractor, in addition to any other actions BHEL may wish to take at the risk and cost of contractor.
30.4	A joint program shall be drawn for the balance amount of work to be completed during the period of 'Time Extension', along with matching resources to be deployed by the contractor as per specified format. Review of the programme and record of shortfall shall be done.
30.5	During the period of 'Time extension', contractor shall maintain their resources as per mutually agreed program
30.6	At the end of total work completion as certified by BHEL engineer, and upon analysis of the total delay, the portion of time extensions attributable to (i) Contractor, (ii) Force majeure conditions, and (iii) BHEL, shall be worked out and shall be considered to be exhausted in the same order. The total period of time extensions shall be the sum of (i), (ii) and (iii) above and shall be equal to period between the scheduled date of completion and the actual date of completion of contract. LD shall be imposed/ levied for the portion of time extensions attributable solely to contractor after adjusting delay attributable to BHEL& Force majeure and recoverable from the dues payable to the contractor.
31.0	PAYMENT FOR ADDITIONAL/EXTRA ITEMS FOR WORKS
31.1	It shall be as per relevant clause of the GCC. However for Enabling work, "CPWD Schedule of Rates 2016" as mentioned in the price schedule will be considered.
32.0	TOOLS & PLANTS (TO BE PROVIDED BY CONTRACTOR)
32.1	Tentative list of T&P to be deployed by contractor for successful completion of work is detailed below. No T&P shall be provided by BHEL
32.2	It may be noted that the list is not exhaustive and is only for general guidance. The contractor is required to provide all necessary T&P measuring (calibrated) instruments, lifting and handling equipment to maintain work progress for timely completion of total work as per contract. In case of project requirement, some activities may have to pre-pone. In such cases the contractor may have to deploy additional T&P. Quoted rate shall be inclusive of such emerging requirements. However, contractor shall submit deployment plan of all T&P along with tender bid.
32.3	In the event of any failure on the part of the contractor to deploy T & P to sustain desired work progress, BHEL may at his discretion also terminate the contract on this ground and take out any or whole amount of the contract from the scope of the contractor. In the event of failure of contractor to deploy necessary and sufficient T&P/ IMTEs to maintain work progress, BHEL will be at liberty to arrange the same at the risk & cost of contractor including transportation cost of same from any of BHEL site/ other agency/ Customer & charges as applicable shall be deducted from contractor's RA bill. Decision of BHEL in this regard will be final & binding on contractor.
32.4	Following Major T&Ps for Enabling job and O&M job as to be arranged by contractor within the indicated time

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32.4A	Major T&P items (for Enabling job)	Deployment Schedule from Start date
32.4a.1	1 Nos. Hydraulic Excavator / Poclain	within 15 days
32.4.2	1 no. dozer	Within 20 days
32.4.3	3 Nos. dumper	Within 20 days
32.4.4	1 no. vibromax /earth compactor	Within 90 days
32.4.5	1 No. Concrete Mixer Machine	Within 30 days
32.4.6	1 No. diesel driven Concrete vibrator with adequate needle	Within 30 days
32.4.7	1 No. total station	Within 20 days
32.4.8	1 Nos. auto level & staff	Within 20 days
32.4.9	1 Nos. DG set 50 KVA	As per requirement
32.4.10	Concrete compressive strength testing moulds – 12 Nos.	Within 30 days
32.4.11	2Nos. Water Tanker – 3000 Ltr. Capacity	Within 30 days
32.4.12	1 no drinking water tank – 1000 lit.	Within 20 days
32.4.13	Portable fire extinguishers as below: Soda acid – 2 sets. Dry chemical powder – 2 sets CO2 – 2 sets. Water & sand bucket (4 buckets in one stand) – 2 sets.	Within 45 days from start of work
32.4B	Major T&P items (for O&M job)	Deployment Schedule from Start date
32.4b.1	Hand operated Megger (500v)	01 No
32.4b.2	Electronic Multi-meter 0 -500V range	01 No
32.4b.3	Tong Tester	01 No
32.4b.4	Electronic Lx measurement meter	01 No
32.4b.5	Tool Box for Electrical maintenance job	02 sets
32.4b.6	Set of D-spanner	01 set
32.4b.7	Torque Wrench set	01 Set
32.4b.8	Allen key set	01 sSet
32.5	T&P shown in the above mentioned list are tentative based on planned progress requirement. Actual Mobilization schedule, based on front availability, drawings, construction schedule and material availability at site is to be reviewed and mutually agreed with CM, BHEL site periodically from time to time for mobilization of major T&Ps, and the same have to be adhered to. No change will be permitted without written approval of Construction Manager, BHEL site. Further requirement will be reviewed time to time at site and contractor will provide additional T&P/equipment to ensure completion of entire work within schedule time without any financial implication to BHEL. All other T&Ps shall be provided by the contractor without any extra cost to BHEL. Vendor will give advance intimation & certification regarding capacity etc. prior to dispatch of heavy equipment.	
32.6	All T&P and all IMTEs, which are required for successful and timely execution of the work covered within the scope of this tender, shall be arranged and provided by the contractor at his own cost in working condition.	
32.7	In the event of non-mobilization of any T&P by the successful bidder and as a result progress of work suffered, BHEL reserves the right to deduct suitable amount from the dues of the bidder, with assigning reasons thereof at the following rates:	
	Major T&P items	Recovery rates
32.7.1	Hydraulic Excavator / Poclain	Rs. 15000/- per week or part thereof

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32.7.2	Dozer	Rs. 20000/- per week or part thereof
32.7.3	Dumper	Rs. 10000/- per week or part thereof
32.7.4	Vibromax / Earth compactor	Rs. 15000/- per week or part thereof
32.7.5	Concrete Mixer Machine	Rs. 5000/- per week or part thereof
32.7.6	Total station	Rs. 500/- per week or part thereof
32.7.7	Auto level & staff	Rs. 300/- per week or part thereof
32.7.8	DG set 50KVA	Rs. 5000/- per week or part thereof
32.7.9	Concrete compressive strength testing moulds	Rs. 100/- per week or part thereof
32.7.10	Water Tanker – 3000 Ltr. Capacity	Rs. 5000/- per week or part thereof
32.7.11.1	Drinking water tank – 1000 lit.	Rs. 500/- per week or part thereof
32.7.11.2	Portable fire extinguishers as below: Soda acid Dry chemical powder CO2 Water & sand bucket (4 buckets in one stand)	Rs. 1000/- per week or part thereof
32.7.12	Any other instrument	As per discretion of the engineer
33.0	Ordering Philosophy, Contract Period and Mobilization period.	
33.1	There are two major scope of works in this package of job and thereby Two Separate Orders shall be issued for the following jobs: (i) Enabling job (for Civil and Electrical scope- (SCH-3, SCH-4 & SCH-5 of Price schedule- Volume-III), & (ii) O&M Services for the Electrical establishment (SCH-6 of Price schedule- Volume-III).	
33.2	Contract Period for Order Execution (In line to details mentioned in Cl. No. 10.0 above): (i) Enabling job (for Civil and Electrical scope-) → Six Months from Start of Job. (ii) O&M Services for the Electrical establishment. → Eighteen Months from deployment of Service Hands.	
33.3	Mobilization Period: (i) Enabling job (for Civil and Electrical scope) → Mobilization within 15 days from the date of written intimation from BHEL. (ii) O&M Services for the Electrical establishment. → After charging of 415 V LT construction Power system with due clearance of Electrical inspector	
34.0	OTHER TERMS	
34.1	All other term & conditions of this specification shall be governed by the pertinent provisions of GCC and other volumes of this tender, as applicable.	

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VOLUME-IF-CML- REV-01	TECHNICAL CONDITIONS OF CONTRACT (TCC)	PAGE 25 OF 25

Annexure-III

**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
5. Welding electrode.
6. Gas
7. Other consumables as required.

VOLUME-III PRICE SCHEDULE, REV-01	
JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.	
TENDER NO - PSER:SCT:KLG-C1924:18	
PREAMBLE	
SL NO	DESCRIPTION
1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where in this document. The tenderer shall sign & stamp all the pages of the tender document as a token of their acceptance. Submission of unfilled formats with sign & stamp shall be construed as acceptance of the contents of the same.
2	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 the tender are only preliminary and for guidance/tender purposes giving some idea of the work involved. The work is to be executed as per terms & conditions of the tender and actual drawings/documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	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, 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 complete tender document and this schedule.
5	The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, 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 plus minus fifteen percent ($\pm 15\%$) of the awarded price as per LOI.
6	Prior written approval of BHEL shall be sought by the contractor in case quantity variation of any item crosses +50% (plus fifty percent) limit during execution and approval to be obtained before execution of further quantity for this item.
7	In case Sealed /Paper Price Bids are opened for finalisation of the tender, for any Item Rate/BOQ based service contract, possibility of variation of quantity/addition/deletion of items can not be ruled out. Under such circumstances, after execution of work, if it is observed that standing as L-1 is changed based on actual quantity executed, the bidder shall give suitable rebate to maintain your standing as L-1. Since this aspect can be assessed at the end of execution, necessary adjustment will be effected at the end of execution in final bill. This condition shall not be applicable where the tender is finalised through Reverse Auction.
8	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order. The rates of unit rate/optional items shall remain valid till execution of the order, if the job/work is awarded to the bidder.
9	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing, clearing of old structures 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. However, if separate rate for such item is available in the rate schedule, the same shall be considered.
10	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 language.
11	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.
12	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 before submission of his bid/offer. No claim whatsoever due to lack of knowledge of site conditions shall be entertained after award of the work.
13	No splitting of the job is envisaged unless the same is specifically indicated in the TCC/Vol-1F. Decision of BHEL in this regard shall be final and binding to the bidders.
14	Bidders are not allowed to alter the Price Schedule format including item description, quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them. BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/altered by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection.
15	Bidders to note that for Civil &/Structural packages, against a particular item against a ST No. appearing in more than one schedule of the BOQ, same rate must be quoted in all schedules for that particular items with same descriptions. If by error, different rates are quoted in different schedules for same ST No. (i.e. item with same description), then the higher of the rates shall be considered for evaluation but awarding shall be done with the lower rate, if the bidder becomes L-1. The same modality shall be applicable for other item rate service contracts where item with same description is repeated in different schedules.
16	For Lumpsum Service Contract : The items/components indicated in the tender is indicative and may vary to any extent. No compensation shall be payable in case of any variation in the items/components listed in the bill of quantities if the executed weight remains within the variation limit. However, in case of deletion of any item or addition of new items over and above the items listed or variation of existing quantity beyond variation limit specified, adjustment (i.e. Payment or recovery as the case may be) shall be done on pro-rata basis based on the Rate per MT worked out from the quoted lump-sum Price and the total weight of components listed /indicated in price schedule plus 15% weight variation limit.
17	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.
18	In case of tender for Civil and/or Structural works, if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/DSR schedule as prescribed in the tender/BOQ cum Rate Schedule. PVC/escalation is not payable for these Non-scheduled items.
19	No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor. No idling charge whatsoever (either for labour or any other resources) is payable by BHEL for any reason whatsoever.
20	Size and weights of various items are mentioned in the attached BOQ cum rate/price schedule for reference purpose only & these shall not be taken into consideration for quoting/calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items
21	Bidder's Total price shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight charges against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoted price against each item keeping the total quoted price unaltered.

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.

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SCH-1 : TOTAL PRICE

SL NO	DESCRIPTION	PRICE SCHEDULE REF	TOTAL QUOTED PRICE (Rs)
1.0	TOTAL PRICE FOR CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE: CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL , KALINGANAGAR, ODISHA.	SCH 2 - BREAK UP OF TOTAL PRICE	<u>IN FIGURES:-</u> <u>IN WORDS:-</u>
2.0	NON-SCHEDULE ITEM Quote % above or % below or at par for items not covered as above of this schedule. The rate shall be derived from Delhi Schedule of Rates 2016 applicable for SCH- 4 & SCH-5		
1a)	Rate of complete item	_____ % above/ _____ % below /At par Delhi Schedule of Rates 2016	
1b)	Rate of supply of material at site only	_____ % above/ _____ % below /At par Delhi Schedule of Rates 2016	
1c)	Rate for execution complete excluding supply of materials.	_____ % above/ _____ % below /At par Delhi Schedule of Rates 2016	

NOTE

1.0	Bidder shall quote total price for total price of SCH-1- Part only at sl no 1 above. All other amounts/ rates of each item of works in respective schedules/ parts will be derived based on allocated percentages. As such, any uncalled figure/ amount noted at any other place/ schedule of Volume-III will not be reckoned & will stand null & void.
2.0	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation & awarding. As such grand total price should be complete in all respect for the full scope defined and considering all terms and conditions.
3.0	Bidder to note that SCH-3 covers scope of job for construction of covered store shed.
4.0	Bidder to note that SCH-4 covers scope of job for Civil Enabling works.
5.0	Bidder to note that SCH-5 covers scope of Electrical Job as per details noted.
6.0	Bidder to note that SCH-6 covers scope of Man-power services for Regular O&M activities.
7.0	Bidder's quoted total price of SCH-3,SCH-4, SCH-5 & SCH-6 at Sl. no 1 above respectively shall be apportioned into amount of various items of works based on allocated percentages against respective item, in respective schedules/ parts. As such, bidder shall not indicate/ quote any amount/ rate in these schedules/ parts and any amount/ rate quoted against any item shall not be taken into cognizance/ account and offer may be liable for rejection.
8.0	Based on the itemwise percentage allocations, the amount for the individual items of the Bill of Quantity shall be arrived at. The rates of individual items shall be derived from the amount against each items after rounding off .
9.0	Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per SI No.8 above.
10.0	Unit rates of each item of works of respective schedules/ parts will be derived by dividing derived amount by corresponding quantities. In deriving the unit rates of each item in this manner, figures only upto 9 decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.
11.0	Successful bidder shall draw a schedule of quantities of various items of work of SCH-3 and obtain BHEL's approval/ clearance in writing before procurement, supply, etc.
12.0	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.
13.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.
14.0	The quoted price shall be inclusive of freight on FOR site basis.
15.0	The quantity of items may vary during execution mainly due to actual requirement etc. The unit rates work out from the overall amount quoted & accepted by BHEL shall be considered and no separate unit rates shall be allowed. Unit rates shall be valid throughout the contract period.
16.0	Based on the price break-up, two separate orders shall be placed for (i) ENABLING JOB (Sch-3 to Sch-5), & (ii) O&M JOB (Sch-6).

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.

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SCH-2 : BREAK UP OF TOTAL PRICE

SL NO	DESCRIPTION	PRICE SCHEDULE REF	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
1.0	TOTAL PRICE FOR CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE: CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODINC ELECTRICAL MAINTENACE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL , KALINGANAGAR, ODISHA.		
a	COVERED STORE	SCH 3 - COVERED STORE	0.35730572
b	ENABLING CIVIL`	SCH 4 -ENABILING CIVIL	0.42881061
c	ENABILING ELECTRICAL	SCH 5 -ENABILING ELECTRICAL	0.18704326
d	O&M	SCH-6 OPERATION AND MAINTENANCE	0.02684041
2.0	TOTAL ALLOCATED PERCENTAGE (1a + 1b + 1c + 1d)		1.00000000

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.

TENDER NO - PSER:SCT:KLG-C1924:18

SCH 3:- COVERED STORE

SL. NO.	DESCRIPTION OF ITEM	UNIT	QTY	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
1	DESIGN, SUPPLY/DELIVERY INCLUDING TRANSPORTATION, UNLOADING, STORAGE AT SITE, ERECTION, ASSEMBLY INCLUDING REQUIRED CIVIL WORKS AND HANDING OVER TO BHEL OF REMOVABLE/ RE-ERECTABLE TYPE PRE-ENGINEERED, PRE-FABRICATED STEEL CLOSED STORAGE SHED (60M X 15M) WITH ALL THE NECESSARY ELECTRICAL FITTINGS, ASSOCIATED CIVIL WORKS AS PER TENDER SPECIFICATION COMPLETE IN ALL RESPECT.	LS	1	0.35730572
	TOTAL			0.35730572

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TENDER NO - PSER:SCT:KLG-C1924:18

SCH 4:-ENABLING CIVIL

ITEM NO	DESCRIPTION OF ITEM	UNIT	TOTAL QTY				WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1	
			TOILET	OPEN STORAGE YARD	NEUTRALISATION PIT	TOTAL QTY		
100	EARTH WORK							
	Earth work In excavation, backfilling and disposal including necessary men/women, materials, equipment, loading, transportation, unloading, dewatering etc as per specification, drawing and as directed by engineer- in-charge for the following.							
101A	Earth work in stripping of top soil upto a maximum depth of 0.30m below ground level so as to exclude all debris, grass, vegetation, bushes, trees having girth upto 300 mm including roots and organic materials etc for levelling and grading including dressing to specified levels & grades and compacting the graded / stripped surface by manual / mechanical means, disposal of stripped materials within a lead upto 1km etc all complete as per specification, drawing and as directed by the engineer-in-charge.	SQM	-	12000.0	-	12000	0.00582962	
101	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering (but excluding special type of dewatering viz. well point method), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 1Km, spreading/levelling of disposed materials etc all complete for following depths below ground level.							
a	Depth from ground level but not exceeding 2 m	CUM		75.0	1950.0	600	2625	0.01771318
102	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.							
a	Ordinary rock	CUM		8.0	-	75	83	0.00098298
107	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 300 mm thickness using/with selected materials from compulsorily excavated soil including ash, sand available within a lead upto 500m and compacted as specified including re-excavation of stacked earth, watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.							
a	Each layer compacted so as to achieve at least 90% maximum dry density as per IS-2720 (Part-VII)	CUM		40.0	1950.0	300	2290	0.01542864
200	CONCRETE WORKS							
	Providing and placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating and curing, (excluding cost of centering, shuttering and reinforcement) with mechanised equipments, admixture/ plasticizer wherever required etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.							
201	Concrete of grade M10 (1 part cement, 3 part sand, 6 parts of 40 mm graded aggregate by volume) as lean concrete, levelling course, mud mat under and around foundations/floors at any depth below finished floor level etc.	CUM		4.0	250.0	34	288	0.07205968
205	Providing and laying Design Mix cement concrete conforming to IS:456 & IS 10262-2009 for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc at any level below finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to IS:9103 (latest) to achieve required slump in concrete all complete as per specification & drawing for the following.							
a	M20 Grade	CUM		-	5.0	2	7	0.00237405
b	M25 Grade	CUM		5.0	20.0	10	35	0.01221146
207	Providing and laying Design Mix cement concrete as per IS:456 & IS 10262-2009 for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajias, beams, columns, wall panels, facias etc. at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with M30 grade concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc. complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing for following grades. (Payment for supply & fixing of reinforcement shall be paid separately as per respective item of Price schedule.)							
a	M25	CUM		-	50.0	-	50	0.01953305
300	FORM WORKS							
	Providing, fixing and removing formwork at any elevations for all structures, as per specifications and including all labour, material, scaffoldings and centering complete including pockets etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.							
301	Fairface form work with good quality water proof ply wood (Plywood lining for form shall be of timber, which is resin bonded and water repellent) of minimum 12 mm thickness and smooth surface below finished ground floor level for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc including providing 25mmx25mm chamfer at all exterior corners.	SQM		72.0	50.0	-	122	0.00119163
302	Fairface form work with good quality water proof ply wood (Plywood lining for form shall be of timber, which is resin bonded and water repellent) of minimum 12 mm thickness and smooth surface above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies etc. for all heights including providing 25mmx25mm chamfer at all exterior corners.	SQM		72.0	50.0	-	122	0.00290511
400	REINFORCEMENT							
402	Providing, Transport, straightening, cutting, bending, placing in position at any level, binding in position of steel reinforcements of TMT steel of grade Fe-500 conforming to IS:1786 including cost of binding wire, labour, scaffolding, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer.	MT		0.5	2.0		2.5	0.00659551
1000	BRICKWORK							
	Brickwork masonry including all labour, material, equipment, transportation, handling, scaffolding etc. at all levels as per specification, drawings and as directed by engineer - in - charge							
1001	Providing brick work in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions below plinth including raking out joints, curing, scaffolding etc. complete excluding plastering and painting.							
c	Using burnt clay bricks of class designation 7.5 of nominal dimension	CUM		18.75		37.50	56.25	0.01374707
1002	Providing brick work in cement mortar 1:6 (1 cement 6 coarse sand) in walls, chambers etc. in thickness 230mm at all heights, places and position above plinth including raking out joints, curing, scaffolding etc complete excluding plastering and painting.							
c	Using burnt clay bricks of class designation 7.5 of nominal dimension	CUM				10	10	0.00290135

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TENDER NO - PSER:SCT:KLG-C1924:18

SCH 4:-ENABLING CIVIL

ITEM NO	DESCRIPTION OF ITEM	UNIT	TOTAL QTY				WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
			TOILET	OPEN STORAGE YARD	NEUTRALISATION PIT	TOTAL QTY	
1003	Providing brick work in cement mortar 1:4 (1 cement 4 coarse sand) in partition walls, chambers etc. in thickness 115mm at all heights, places and position above or below plinth/graded level including Providing two nos. 6 mm diameter MS bars at every third layer, raking out joints, curing, scaffolding etc complete excluding plastering and painting as per specification.						
c	Using burnt clay bricks of class designation 7.5 of nominal dimension	SQM	8.0	-	-	8	0.00030809
1200	CEMENT MORTAR PLASTER						
	Cement mortar plaster including making grooves wherever required including all labour, material, scaffolding, curing etc at any level as per specification, drawings and as directed by engineer - in - charge.						
1202	Plaster to masonry /concrete wall, floor, slab soffits, fins, sills, drains etc with sand cement mortar including rounding or chenefering corners as directed and racking out joints or roughening of concrete surface including chipping & application of cement slurry where necessary etc complete as per drawing and direction of engineer.						
a	With 1:6 cement mortar average 12mm thick plaster.	SQM	75.0	-	50	125	0.0011155
b	With 1:6 cement mortar average 15 mm thick plaster.	SQM	75.0	-	50	125	0.00129017
1205	12 mm cement plaster finished with a floating coat of neat cement of mix :						
a	1:4 (1 cement: 4 fine sand)	SQM	50.0	-	100	150	0.00170423
1800	MISCELLANEOUS WORKS						
	Miscellaneous works including all labour, material, equipment etc. at any level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.						
1801	Supplying, fitting and fixing 0.46mm (26 SWG) thick galvanized iron corrugated sheet having minimum weight 63-65 kg per bundle (2'-6" width 70 – 72 rft long) roofing fitted and fixed on MS sections with 'J' hook or wooden purlins with screws, limpet washers, bitumen washers and putty etc. all complete as per direction of the E-I-C.	SQM	-	250.0	-	250	0.00807847
1802	Providing and laying 400G polythene sheet on prepared road surface underneath the cement concrete, etc. all complete as per specifications and direction of the Engineering-in-Charge.	SQM	-	5000.0	-	5000	0.00433649
1804	Providing PVC pipe with fittings and fixtures of FinOlex / Utkarsh India / Supreme or equivalent make as per IS-13592:1982 with all materials, labour, etc complete for rain water pipes, external sewer line/ waste water line connection upto open drain or manhole to manhole/ septic tank/ soak pit, as directed by BHEL.Payment terms - a) On receipt of materials at site- 60%; b) On completion of job in all respect - 40%.						
a	90mm dia, Type-A & Wall thickness is 2.3mm	RM	20.0	-	-	20	0.00022715
1805	Providing & fixing 15cm wide, 45cm overall semi-circular plain CGI Rainwater gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including necessary connections with rain water pipes all complete.						
b	0.63 mm thick with zinc coating not less than 275 gm/m ²	RM	8.0	-	-	8	0.0001869
1807	Supplying, fitting & fixing operable steel window with security grill conforming to IS1036-1975 & IS7452-1974 with non-friction projecting type of hinges fitted with revets or nut bolt system as directed, glazing cleats, lugs, 2 nos MS anodised heavy duty peg stays & fastner for each window of size 900mm x 1200mm, minimum 4mm thick clear glass pane (each max. size 450mm x450mm), including fixing in position with putty, fixing lug in cement concrete 1:2:4 with stone chips 12.5mm down cutting holes & mending good damage, 10mm dia MS guard bar welded horizontally 125 c/c with each window, etc complete with 1 coat of primer and 2 coats of synthetic enamel finish in all respect.	SQM	9.0	-	-	9	0.00183985
1808	Providing & fixing of wooden solid flush door with commercial ply finish, fitted with MS hinges(heavy duty), one each of 150mm aluminium tower bolt, 16mmx300mm long Al sliding door bolt & 100mm aluminium handle, finished with one coat of primer & two coat of synthetic enamel paint etc complete.						
a	Minimum 25 mm thick shutter.	SQM	3.0	-	-	3	0.00041361
1809	Providing & Fixing hard wood frame conforming to IS:4021 made of approved quality seasoned wood like Gammar, Sishu, Neem etc free from lagre or loose knots, cracks or other defects inclusive of sand paper smoothening, hold fasts, beading, primer including final synthetic painting of approved make etc complete as per specifications with proper wood joinery, accurately set to required lines or levels and rigidly secured in place.	CUM	0.06	-	-	0.06	0.00016544
1810	Providing and fixing minimum 24 mm thick factory made solid PVC panelled door shutter with door frame 60mmx30mm (Syntex or equivalent) including all hardware items like handle, hinges,tower bolt, hatch bolt, locking arrangement, etc all complete in all respect.	SQM	7.0	-	-	7	0.0005724
1811	Providing and fixing of overhead hydraulic door closer of Godrej make or equivalent as directed by Engineer-In-Charge.	NO	1.0	-	-	1	0.00002152
1812	Providing and applying one coat of approved primer to timber or steel or plastered surface or other metal surface with ready mix paint of approved quantity including smoothening of surface by sand papering, etc complete.	SQM	12.0	-	-	12	0.00001796
1813	Painting two coats with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc all complete as directed by Engineer-In-Charge.						
a	On steel or other metal or wooden surface with super gloss.	SQM	12.0	-	-	12	0.00004487
29	3 coats white washing with line including cleaning and smoothening surface thoroughly to give an even shade.	SQM	75.0	-	-	75	0.00006655
1814	Providing and applying 2 or more coats of weather paint of Aisian paint or approved equivalent make and colour on exterior surface at all heights including material, labour, scaffolding, curing, etc complete as per specification.	SQM	75.0	-	-	75	0.00033388
1815	Providing and laying 10 mm thick plain ceramic tiles of standard shade in flooring including 4" skirting of approved make on 20mm thick under bed of 1 part cement and 4part coarse sand by weight mixed with sufficient water, complete as per specification laid in pattern of following sizes.						
a	300mm x 300mm x 10mm(th)	SQM	72.0	-	-	72	0.00256767
1816	Providing attach\ common toilet with following facilities as directed by BHEL : (a) 5mm thick white colour ceramic floor tile & inside wall tile upto 2.0mtrs height from finish floor (b)1 CP towel rail 550mm long, 1 best quality 550mm x 400mm mirror, etc complete, (d) 1 European/Indian type WC pan with seat and lid black colour (Hindustan make or equivalent approved make), low level 10 ltrs capacity white PVC flushing cistern, one no. two in one bibcock fitted with hand shower of approved make etc. All inside pipe lines shall be 15mm/20mm PVC & concealed pipes.Main external supply water pipe lines shall be 25mm dia PVC and provided upto ground floor along exterior wall, complete in all respect including testing. Seperate hot and cold water plumbing lines fitted bibcocks / pillar cock shall be provided for shower/bath area and wash basin. One 6L storage capacity standard Gyesser of approved make shall be provided and fitted with the Hot a nd Cold water lines. Soil pipe shall be min 75mm dia CI for below floor if any & outside shall be 100 mm PVC of supreme or equivalent. Masonry, plastering, tiling and painting will be paid separately as per respective items. (rate in lumsum for each set of toilet).	SET	2.0	-	-	2	0.00490865

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TENDER NO - PSER:SCT:KLG-C1924:18

SCH 4:-ENABLING CIVIL

ITEM NO	DESCRIPTION OF ITEM	UNIT	TOTAL QTY				WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
			TOILET	OPEN STORAGE YARD	NEUTRALISATION PIT	TOTAL QTY	
1817	Providing Bath room with following facilities as directed by BHEL : (a) 5mm thick white colour ceramic floor tile & inside wall tile upto 2.0mtrs height from finish floor (b)1 CP towel rail 550mm long, 1 best quality 550mm x 400mm mirror, etc complete,(c) Shower system 1 nos etc. All inside pipe lines shall be 15mm/20mm PVC & concealed pipes.Main external supply water pipe lines shall be 25mm dia PVC and provided upto ground floor along exterior wall, complete in all respect including testing. Separate hot and cold water plumbing lines fitted bibcocks / pillar cock shall be provided for shower/bath area and wash basin. One 6L storage capacity standard Gyeser of approved make shall be provided and fitted with the Hot and Cold water lines. Soil pipe shall be min 75mm dia CI for below floor if any & outside shall be 100 mm PVC of supreme or equivalent. Masonry, plastering, tiling and painting will be paid seperately as per respective items. (rate in lumsun for each set of toilet).	SET	1.0	-	-	1	0.00171803
1818	White vitreous wash basin 550 x 400 mm (Hindustan make or equivalent approved make) with CI bracket, 15mm CP brass pillar taps, 32mm PVC waste water pipe, 32mm CP brass waste, 1 CP towel rail 550mm long, 1 best quality 550mm x 400mm mirror, etc complete,	Set	2.0	-	-	2	0.00019757
1819	White vitreous Urinal with CI bracket, 15mm CP brass pillar taps, 32mm PVC waste water pipe, 32mm CP brass waste .etc complete,	Set	3.0	-	-	3	0.00043457
1820	Providing & fixing PVC water tank (Syntex or equivalent) in position. The work to include making all necessary inlet & out-let pipes, fixture, heavy duty overflow ball valves etc all complete as per specification at all heights and levels.						
a	1000 ltr capacity.	NOS	1.0	-	-	1	0.00033016
1821	Suppy, laying and jointing 100mm dia heavy duty CI pipes including bends, branches and all other necessary fittings, lead caulking,a coat of bitumenous paint, IMS holder bats/ clamps, cutting and making good the walls and floors, jointing, test	RM	5.0	-	-	5	0.00056786
1822	Suppy, fitting & fixing/ laying of GI pipe above or below ground of required dia as per IS:1239/ IS:3589 , etc complete for making common ring header (For below ground excavation shall be paid seperately). As per direction of Engineer-In-Chagre.						
a	25mm diameter	RM	20.0	-	-	20	0.00023902
b	40mm diameter.	RM	20.0	-	-	20	0.00037166
1823	Providing & laying NP2 class RCC hume pipe with collar joint with stiff mixture of cement mortar 1:2 including testing of joint etc with all materials and labour. All excavation, backfilling, concreting if required shall be paid seperately as per relevant items.						
a	150mm dia	RM	10.0	-	-	10	0.00016818
b	300mm dia	RM	-	20.0	-	20	0.00048895
c	450mm dia	RM	-	15.0	-	15	0.00050986
d	600mm dia	RM	-	10.0	-	10	0.00065869
1824	Providing barbed wire fencing with R.C.C (1:2:4) posts @ 2.43m c/c and of section 100mmx100mm at top and 150mmx150mm at bottom of 2.13m total height (1.37m above G.L. and 0.76m below G.L) in/c 150mm thick, 450mm square spread footings (posts reinforced with 4 nos.10mm dia main rod and 6mm dia stirrups @150mm c/c. footing reinforced with 5 nos. 10mm dia rod both ways) supplying, fitting and fixing 8 lines of barbed wire horizontally (fixed with the post through 6mm dia. rods embedded into the post) and 2 lines diagonally from post to post with 12 BWG 2 ply barbed wire with 4 points barbs @minimum 112mm c/c in/c 6 mm thick cement plaster (1:4) up to 1500mm length of the posts etc. all complete as per direction of the E-I-C.	RM	-	1000.0	-	1000	0.03453905
1825	Construction of Septic Tank & Soak pit for 25 users and Water Tank -PVC/uPVC type 1000L capacity & Installation .	Nos				1	0.00605687
1826	UNLOADING, STORAGE AT SITE, ERECTION, ASSEMBLY INCLUDING REQUIRED CIVIL WORKS AND HANDING OVER OF PORTA CABIN TO BHEL OF MINIMUM SIZE OF 20'X8'X8 (SIZE +/- 20%) AS PER TECHNICAL SPECIFICATION INCLUDING REQUIRED CIVIL WORK. (BHEL WILL BE SUPPLIED PORTA CABIN AT SITE)	Nos				1	0.01195757
1827	UNLOADING, STORAGE AT SITE, ERECTION, ASSEMBLY INCLUDING REQUIRED CIVIL WORKS AND HANDING OVER OF PORTA CABIN TO BHEL OF MINIMUM SIZE OF 40'X8'X8 (SIZE +/- 20%) AS PER TECHNICAL SPECIFICATION INCLUDING REQUIRED CIVIL WORK. (BHEL WILL BE SUPPLIED PORTA CABIN AT SITE)	Nos				2	0.03348124
2300	STRUCTURAL STEEL						
	Structural steel works including all labour, material, equipments, transportation, handling etc. at any level as per specification, drawings and as directed by engineer - in - charge.						
2301	Supply, fabrication, erection and painting of structural steel work for ms gates / misc. structures in columns, beams, wind ties, etc with simple rolled structural members connected to one with another with brackets gusset cleats, bolts & nuts or welding etc as per design & direction complete including fabrication, hoisting & erection including all materials, labour etc complete with one coat of primer & two coats of synthetic enamel painting (Contractor will provide structural steel of approved brand with test certificate).	MT	-	2.0	-	2	0.00878828
2400	ROAD WORKS						
	Providing and placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating, shuttering, formwork and curing (excluding cost of reinforcement), with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specification and as per direction of engineer in charge for the following						
2404A	Providing, laying, spreading and compacting (thickness to be measured on finished surface) WBM 63 mm to 0.075 mm jhama brick aggregates to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 12T road roller / vibratory roller in stages to proper grade and camber, applying and brooming and binding materials to fill up the interstices of coarse aggregate, watering and compacting to the required thickness for open store yard & other places.	CUM	-	1000.0	-	1000	0.05263182
2404	Providing and Laying, spreading and compacting stone aggregate of 90mm to 45mm size stone to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8 10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate,watering and compacting to the required density .	CUM	-	1000.0	-	1000	0.0739985
	TOTAL						0.42881061

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TENDER NO - PSER:SCT:KLG-C1924:18

SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
1.0	Supply & fixing of iron clad main switches TPN/ DP on angle iron frame duly painted/ on wall, with all required materials, hardwares, etc. as per instruction of BHEL Engineer, of Standard make (Havells/crompton/approved make) -			
1.1	200 Amps TPN, MSFU(Main switch fuse)	1	Nos	0.00058391
1.2	63 A TPN	10	Nos	0.00193164
1.3	30/ 32A TPN.	3	Nos	0.00027603
1.4	32A DP.	2	Nos	0.00012622
1.5	16A DP.	4	Nos	0.00010263
2.0	Supply & fixing of sheet metal (16SWG) iron clad busbar chamber (W=500mm x D=150mm) on angle iron frame duly painted on wall with 4 Al bars (25mm x 5mm x 600mm) 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 as per instruction of BHEL Engineer.	1	Nos	0.00011796
3.0	Supply & fixing of metal sheet MCB BOX, as per instruction of BHEL Engineer -			
3.1	4 Way	6	Nos	0.00015571
3.2	6 way	4	Nos	0.00011442
3.3	8 way	4	Nos	0.00014274
4.0	Supply & fixing of Metal Junction Box with connector Lugs, as per instruction of BHEL Engineer -			
4.1	Size (8"X10"X3") to terminate 10 sqmm cable and 4 sqmm cable	4	Nos	0.00016279
4.2	Size (8"X6"X3") to terminate 6 sqmm cable and 2.5 sqmm cable/1sqmm cable	6	Nos	0.00024418

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TENDER NO - PSER:SCT:KLG-C1924:18

SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
5.0	Supply & fixing of composite flush/box mounted type 250 volt 6 Pin 15 Amps Plug socket integral fuse, with single phase motor starter with overload protection, on sheet metal box with bakelite cover and earthing attachment including Switch and Fuse of matching PVC box-make ANCHOR or approved make (Pantry/Kitchen/AC), as per instruction of BHEL Engineer.	50	Nos	0.00056032
6.0	Supply & fixing composite flush type 250 volt 5 Pin 5Amps Plug socket integral fuse with 5 Amps piano key type switch on sheet metal box with bakelite cover and earthing attachment including Switch and Fuse of matching PVC box-make ANCHOR /or approved make (for Computers /printers), as per instruction of BHEL Engineer.	10	Nos	0.00011206
7.0	Supply and Fixing of Switch Board(10"X14") with flush type 250 volt 6 Pin 15 Amps Plug socket integral fuse with six no.s 15 Amps piano key type switch on sheet metal box with bakelite cover and earthing attachment including Switch and Fuse of matching PVC box-make ANCHOR or approved make, as per instruction of BHEL Engineer.	10	Nos	0.00081099
8.0	Supply and installation of switchboard of sheetmetal box with bakelite cover, as per instruction of BHEL Engineer -			
8.1	Size 4"X8"	5	Nos	0.00001858
8.2	Size 4"X10"	10	Nos	0.00003716
8.3	Size 4"X4"	5	Nos	0.00001858
9.0	Supply and Installation of SP MCB for lighting / Power purpose-			
9.1	16 Amps	10	Nos	0.00008139
9.2	6 Amps	10	Nos	0.00008139
9.3	62A/65A	10	Nos	0.00008139

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.

TENDER NO - PSER:SCT:KLG-C1924:18

SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
9.4	25A/32A	10	Nos	0.00008257
10.0	Cabling			
10.1	3.5 core 95 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.			
10.1.1	Supply of 3.5 core 95 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.	1000	RM	0.02093865
10.1.2	Laying below ground in excavated trench average depth 800 mm with 8 nos of brick on top of the cable per meter including filling the space between brick & cable and also the trench with shifted soil levelling and restoring the surface duly rammed & compacted, as per instruction of BHEL Engineer.	500	RM	0.00758822
10.1.3	Laying of cable either on wall through fixing by clamping or hanging on temporary pipe supports at some suitable interval of cable route. Height of cable to be maintained for hinderance free movement of people on work.	500	RM	0.0008623
10.1.4	End termination with double compression gland and lugs (including Supply).	20	Nos	0.00015926
10.2	3.5 core 25 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.			
10.2.1	Supply of 3.5 core 25 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.	1000	RM	0.02005359
10.2.2	Laying below ground in excavated trench average depth 800 mm with 8 nos of brick on top of the cable per meter including filling the space between brick & cable and also the trench with shifted soil levelling and restoring the surface duly rammed & compacted, as per instruction of BHEL Engineer.	500	RM	0.00758822

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.

TENDER NO - PSER:SCT:KLG-C1924:18

SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
10.2.3	Laying of cable either on wall through fixing by clamping or hanging on temporary pipe supports at some suitable interval of cable route. Height of cable to be maintained for hinderance free movement of people on work.	500	RM	0.0008623
10.2.4	End termination with double compression gland and lugs (including Supply).	10	Nos	0.00007963
10.3	3.5 core 120 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.			
10.3.1	Supply of 3.5 core 120 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.	500	RM	0.00814432
10.3.2	Laying below ground in excavated trench average depth 800 mm with 8 nos of brick on top of the cable per meter including filling the space between brick & cable and also the trench with shifted soil levelling and restoring the surface duly rammed & compacted, as per instruction of BHEL Engineer.	300	RM	0.00455293
10.3.3	Laying of cable either on wall through fixing by clamping or hanging on temporary pipe supports at some suitable interval of cable route. Height of cable to be maintained for hinderance free movement of people on work.	200	RM	0.00034492
10.3.4	End termination with double compression gland and lugs (including Supply).	10	Nos	0.00007963
10.4	3 core 300 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.			
10.4.1	Supply of 3 core 300 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.	500	RM	0.02036079

**VOLUME-III
PRICE SCHEDULE, REV-01**

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TENDER NO - PSER:SCT:KLG-C1924:18

SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
10.4.2	Laying below ground in excavated trench average depth 800 mm with 8 nos of brick on top of the cable per meter including filling the space between brick & cable and also the trench with shifted soil levelling and restoring the surface duly rammed & compacted, as per instruction of BHEL Engineer.	300	RM	0.00455293
10.4.3	Laying of cable either on wall through fixing by clamping or hanging on temporary pipe supports at some suitable interval of cable route. Height of cable to be maintained for hinderance free movement of people on work.	200	RM	0.00034492
10.4.4	End termination with double compression gland and lugs (including Supply).	10	Nos	0.00007963
10.5	4 core 6 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.			
10.5.1	Supply of 4 core 6 sqmm PVC, armoured Aluminium cable of 1.1 KV grade as per IS-1554.	500	MTRS	0.00250687
10.5.2	Laying above ground on wall/ surface with clamps etc, chase cutting on wall/ floor, mending good damages, testing & commissioning of 4 core 6 sqmm PVC, Aluminium cable of 1.1 KV grade, as per instruction of BHEL Engineer.	400	MTRS	0.00068984
10.5.3	Laying, below ground in excavated trench average depth 800 mm with 8 nos of brick on top of the cable per meter including filling the space between brick & cable and also the trench with shifted soil levelling and restoring the surface duly rammed & compacted, as per instruction of BHEL Engineer.	100	MTRS	0.00151764
10.5.4	End termination with double compression gland and lugs (including Supply)..	10	Nos	0.00009313

**VOLUME-III
PRICE SCHEDULE, REV-01**

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TENDER NO - PSER:SCT:KLG-C1924:18

SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
11.0	Supply, drawing through PVC conduit/casing, termination, testing & commissioning as wiring for lighting, power & earthing of -			
11.1	1 core 10 sqmm PVC insulated, stranded Copper wire of 1.1 KV grade	500	RM	0.0027428
11.2	1 core 6 sqmm PVC insulated, stranded Copper wire of 1.1 KV grade	500	RM	0.00141555
11.3	1 core 4 sqmm PVC insulated, stranded Copper wire of 1.1 KV grade	700	RM	0.00103241
11.4	1 core 2.5 sqmm PVC insulated, stranded Copper wire of 1.1 KV grade	1000	RM	0.00129759
11.5	1 core 1.5/1 sqmm PVC insulated, stranded Copper wire of 1.1 KV grade	1600	RM	0.00132118
11.6	1 core 1 sqmm PVC insulated, Green stranded Copper wire for earthing of inside building	1600	RM	0.0009437
12.0	Supply and fixing of PVC conduit with all bends, tees, reducers, rectangular/circular box, clamps, saddles, etc. along with the accessories in surface/ recess in beam/ roof slab/ wall/ false ceiling and making good the same as required, as per instruction of BHEL Engineer.			
12.1	1" dia rigid	2000	RM	0.00259517
12.2	1" dia flexible	100	RM	0.00007671
13.0	Supply and fixing of PVC casing with all bends, tees, reducers, rectangular/circular box, clamps, saddles, etc. along with the accessories in surface/ recess in beam/ roof slab/ wall/ false ceiling and making good the same as required, as per instruction of BHEL Engineer.			
13.1	1.5" dia	300	RM	0.00053083
13.2	1" dia	300	RM	0.00028311
13.3	0.5" dia	200	RM	0.00029497
14.0	Supply & fixing of ceiling rose on circular boxes, as per instruction of BHEL Engineer.	30	Nos	0.00004425

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.

TENDER NO - PSER:SCT:KLG-C1924:18

SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
15.0	Supply of outdoor luminaires type 1x70 W HPSV lamps in cast aluminium body with acrylic cover along with lamps, control gear, etc including all fixing/ supporting accessories complete. Model: BJMSC-70SV of BAJAJ or equivalent of PHILIPS/ CROMPTON.	16	Nos	0.00330294
16.0	Fixing on wall with 40 mm dia swan neck GI pipe with suitable clamps etc & commissioning of outdoor luminaires suitable for 1x70 W HPSV lamps in cast aluminium body with acrylic cover along with lamps. Including all fixing/ supporting accessories complete and flexible wire for connection between ceiling rose & fitting.	16	Nos	0.00882993
17.0	Supply of Indoor type luminaries 1x150 W medium bay industrial type, model BJMBI-150SV of BAJAJ or equivalent of PHILIPS/ CROMPTON.	10	Nos	0.00294906
18.0	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 BJMBI-150SV of BAJAJ or equivalent of PHILIPS/ CROMPTON.	10	Nos	0.00021592
19.0	Supply & Installation of Dual Tube Light (2x36 Watt) Fixture of standard make (Philips or approved make)	20	Nos	0.00256569
20.0	Supply and installation of CFL 2x36 W decorative false ceiling type, with box base & mirror type reflectors with fixing/ hanging material/ hardware, of approved make.	10	Nos	0.00115013
21.0	Supply and installation of CFL 2x36 watts with box base & vitrious enamelled reflectors with fixing/ hanging material/ hardware, of approved make.	10	Nos	0.00115013
22.0	Supply of 230V 12" exhaust fan with external louvre	4	Nos	0.00082409
23.0	Supply of local make approved quality Pedestal fan - 16" sweep.	6	Nos	0.00066354

VOLUME-III PRICE SCHEDULE, REV-01				
JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.				
TENDER NO - PSER:SCT:KLG-C1924:18				
SCH-5-ENABLING ELECTRICAL (ELECTRIFICATION WORK AND AREA LIGHTING)				
SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
24.0	Supply and Installation of earth electrode 40 mm dia 3 metre long GI pipe directly driven into earth including earth excavation if required.	10	Nos	0.00147453
25.0	Supplying & installation of 16 SWG GI wire for earthing including supply & termination with lugs as required.	500	RM	0.00035389
26.0	Supplying & installation of 8 SWG GI wire for earthing including supply & termination with lugs as required.	100	RM	0.00008851
27.0	Supply and installation of 3.5C X2.5sqmm cable	200	RM	0.00480113
28.0	Installation of LT Kiosk	4	Nos	0.00248342
29.0	Installation of Lighting Mast	2	Nos	0.00758822
30.0	Supply and installation of calling bell	6	Nos	0.00005308
31.0	Supply & installation of 15/ 16 A piano type switch.	5	Nos	0.00001769
32.0	Supply & installation of 15/ 16 A flush type power socket.	5	Nos	0.00005456
33.0	Supply & installation of 5/ 6 A piano type switch.	30	Nos	0.00002831
34.0	Supply & installation of 5/ 6 A flush type power socket.	30	Nos	0.00004425
35.0	Supply & installation of Ceiling Fan 48" sweep	12	Nos	0.00106166
36.0	Supply and installation of aquaguard with fitting	3	Nos	0.00265415
37.0	Supply of portable Distribution Board of following ratings. Detailed specifications may be referred vide Annexure - I			
37.1	Portable Distribution Board -2 (Incomer 63 A TP)	2	Nos	0.00385402
37.2	Portable Distribution Board -3 (Incomer 63 A DP)	2	Nos	0.00334393
38.0	Supply, installation and commissioning of Main Lighting Distribution Board (MLDB) equipped with 40 KVA Transformers. Detailed specifications may be referred vide Annexure - II	4	Nos	0.01766983
	TOTAL			0.18704326

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: CIVIL ENABLING JOB FOR ESTABLISHMENT OF NEW CONSTRUCTION SITE OF POWER PLANT INVOLVING MAJOR ACTIVITIES LIKE CONSTRUCTION OF COVERED STORES, TOILET BLOCK, HARD SURFACING, ROADS, DRAINS & CULVERTS, FENCING ETC ALONGWITH ELECTRICAL JOB FOR EXTENSION OF CONSTRUCTION POWER SOURCES, GENERAL ILLUMINATION OF ALL THE WORKING AREAS, BUILDINGS AND OFFICES ETC. INCLUDING PERIODIC ELECTRICAL MAINTENANCE JOB FOR 1X120 MW BTG PROJECT AT TATA STEEL, KALINGANAGAR, ODISHA.

TENDER NO - PSER:SCT:KLG-C1924:18

SCH-6 (OPERATION AND MAINTENANCE)

SL NO.	DESCRIPTION	QTY	UNIT	WEIGHTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
1.0	O&M Services for the installed and operational construction power distribution system for round the clock services by providing manpower services as per following details of service heads including supply of consumable items like: LT fuse link, insulation tape etc. as per requirement. All the working personnel also to be provided with PPEs as per HSE norms including necessary electrical maintenance Tools and Tackles			
1.1	Skilled Electrician having valid Electrical license for installation of LT system and adequate experience(minimum 5 years experience or ITI with one year experience) in maintenace of 415 V construction power network, electrical wiring, illumination system etc. alongwith necessary tools, insulation tapes as required for the work [8 hrs shift per day, with paid weekly off].	18	MAN-MONTH	0.01464022
1.2	Semi-skilled Electrical helper having adequate experience(minimum 3 years experience) in maintenace of 415 V construction power distribution network, electrical wiring, general illumination system etc. alongwith necessary tools, insulation tapes as required for the work [8 hrs shift per day, with paid weekly off].	18	MAN-MONTH	0.01220019
TOTAL				0.02684041

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	Civil enabling job for establishment of new construction site of power plant involving major activities like construction of covered stores, toilet block, hard surfacing, roads, drains & culverts, fencing etc. alongwith electrical job for extension of construction power sources, general illumination of all the working areas, buildings and offices etc. including periodic electrical maintenance job for 1X120 MW BTG Project at TATA Steel, Kalinganagar, Odisha.	
Ref	1.0	Tender no PSER:SCT:KLG-C1924:18.
	2.0	BHEL's NIT, vide reference no PSER: SCT:KLG-C1924:7179 Date: 22-11-2018.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:KLG-C1924:TCN-01 Date: 07-12-2018.
	4.0	All other pertinent issues till date.

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/ issued by you and in case of such 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. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) 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/uploaded offer/documents in accordance with tender instructions with acceptance of the terms & conditions of the tender by us and as per aforesaid references.

Thanking you,

Yours faithfully,

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