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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	<u>INTRODUCTION</u>
	Project name: Sagardighi Thermal Power Extension Project, unit # 5, 1x660 MW.
	No of unit x capacity: 1 x 660 MW (Super-critical).
	Project setting up by: West Bengal Power Development Corporation Limited. Design ambient dry bulb temp: 50 deg max, 5 deg min.
	Max relative humidity: 84%.
	Average rainfall: 1389 mm.
	APPROACH TO SITE
	The site is located at Manigram, about 13 km north of Sagardighi town by the side of the SMGR (Sagardighi-Manigram-Gankar-Raghunathgunj) road at a distance 20 km. from National Highway 34 in Murshidabad district in W.B and around 240 km from Kolkata.
	Nearest railway station is Manigram adjacent to the site on Bandel-Barhawara branch line and 6.5 km from Sagardighi Railway Station on
	Sainthia-Azimgunj line of Eastern Railway.
	From Sagardighi railway station a railway line will branch off to the site for
	material unloading and coal marshalling. Nearest Airport: NSC Bose Air Port, Kolkata.
	Nearest Seaport: Haldia / Kolkata.
2.0	SCOPE OF THE CONTRACT
2.1	The scope of works covers Construction of covered storage shed, relocation of existing covered storage shed, dog house shed, Safety park, RCC Sleepers, Renovation of existing Field Hostel & BHEL Site office, Hard Surfacing, Roads, Drains & Culverts, Fencing etc, Misc. other Civil Enabling job etc. at 1x660 MW Sagardighi Unit-5, Murshidabad, West Bengal.
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.

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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 norms, labour laws, requirement of statutory clearances, 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 as per requirement shall be arranged by contractor at his own cost
	outside the plant premises.
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, POWER & OTHER FACILITIES
3.2.1	Contractor has to make his own arrangement for water and power supply, as shall be required to carry out the entire scope of work under this tender specification at his own cost. BHEL shall not be responsible, for providing any source of water or power to the contractor. The contractor may have to carry out the jobs even during the night. Hence all necessary arrangements may be deployed to ensure 24 hour working to ensure timely completion of the job.
3.2.2	All resources including T&P, manpower, consumables etc. required for carry out the execution of job are to be arranged by the contractor within the quoted / accepted rates.
3.2.3	Contractor has to make his own arrangement at his cost for completing the formalities with the all authorities / customer, if required, for bringing their material, plant, equipment at site for execution of the work.

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3.2.4	Contractor has to make his own arrangement for accommodation, transportation & other facilities of their workmen/ employees at their own cost. Contractor has to make his own arrangement for computer facilities (including stationary), to carry out their portion of work and for preparation of reports etc., at their own cost. Providing watch & ward for security and safety of their scope of materials will be the responsibility of contractor at their cost. BHEL may call for weekly/ monthly meeting for reviewing the progress of the work and the contractor will comply with it.
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 at his quoted price.
	At the time of making gate pass for T&P may be physically verified by Customer (WBPDCL) 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 shall be borne by the vendor. T&P which will be rejected by Customer authority and shall be failed in healthiness testing are not to be issued gate pass for entering inside the project premises.
	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.
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. However, BHEL shall issue some materials free of cost wherever mentioned in the Vol-III (PRICE SCHEDULE, latest revision) and the same has to be handled by the bidder within the quoted price.
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.
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

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	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	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-

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	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	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 Civil Enabling job shall be successfully completed in all respect within 08 (Eight) 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.
11.0	TERMS OF PAYMENT
11.1	FOR ENABLING JOB
11.1.1	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. 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.
	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.
11.1.2	Out of above mentioned 95 %, 1.5 % of gross bill amount shall be paid in the

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	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	Contractor's RA bill, complete & correct in all respects, certified by BHEL engineer,
	shall be paid in the following manner.
11.3	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.
11.4	Such payment as above shall be effected only on certification by BHEL against
	completion of each stage.
11.5	No bills including RA bills will be paid to individual consortium partners in case of
	consortium arrangement.
11.6	Progressive payment shall be made by BHEL against successful bidder's RA bill,
	complete & correct in all respects accompanied by BHEL engineer's certified/
	measurement sheet, jointly signed; requisite statutory certificates, certified by
	BHEL; after 45 days of submission of the bill.
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. 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.
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 chave at any store during execution of contract including
	Any increase of above at any stage during execution of contract, including

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	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
	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
.0.0	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
	to 2.122, Co. amount chair to receive able from educational blader diolig with

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	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 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	Way Bill: Successful bidder to arrange for way bill/ e-waybill for any transfer of goods for the execution of the contract.
	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.
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
	Not applicable.
15.0	PRICE VARIATION CLAUSE
	The price shall remain firm throughout the contract period including extension period, if any.
16.0	OVER RUN CHARGES / RATE REVISION
	No overrun charges / rate revision will be admissible / applicable for this tender.
17.0	PROJECT MANAGEMENT/ CONSTRUCTION MANAGEMENT (Applicable for Enabling job)
17.1	All construction debris and other garbage shall be continuously collected and disposed at an approved facility. At the end of each day, all waste materials 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.
1=0	The Contractor's shall prepare a pest and vector control program to address specific site conditions, including a mosquito control program.
17.2	PLANNING & MONITORING The hidden about property detail construction asked to (1, 2), as you as a secondation detail.
17.2.1	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.

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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.
17.3	CONSTRUCTION CAMPS
17.0	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.
	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.
	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.
	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
4= 4	domestic and other waste shall be specified in a plan.
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-
17.4.4	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

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	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
	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 (exclusively for safety supervision jobs) shall be deployed at site throughout the execution period. Qualification of Safety officer will be Diploma in Safety and the safety officer will be qualified and well experienced in safety job.
17.6.2.2	Engineer for quality inspection.
17.6.2.3	Site supervising engineer and supervisors for Civil works
17.6.2.4	Deputation of above man-power shall be jointly decided at site in line with construction schedule.
17.6.2.5	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 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.

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20.1 Security deposit shall be applicable as per relevant clause of GCC.			
21.0 CONTRACT PRICE			

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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 and order shall be placed for Civil Enabling job as per respective components of Price Schedule accordingly.
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 22.1.1	INSPECTION & FIELD QUALITY ASSURANCE Contractor shall carry out all activities conforming to the approved Field Quality
22.1.1	Plan (FQP) & technical instructions as revised from time to time. 'Total Quality' shall
	be the watchword of the work and contractor shall strive to achieve the quality
	standards, procedures laid down by BHEL. He shall follow all the instructions as per
	BHEL drawings and quality standards. Contractor shall provide the services of
	quality assurance engineer as per the relevant clauses.
22.1.2	Preparation of quality assurance log sheets and protocols with customer /
	consultants / statutory authority, welding logs, NDE records, testing & calibration
	records and other quality control and quality assurance documentation as per BHEL
	engineer's instructions, is within the scope of work / specification. These records
22.1.3	shall be submitted to BHEL / customer for approval from time to time.
22.1.3	The protocols between contractor and customer / BHEL shall be made for correctness of foundations, materials, procedures, at each stage of installation,
	generally as per the requirement of customer / BHEL. This is necessary to ensure
	elimination of errors and to avoid accumulation and multiplication of errors.
22.1.4	A daily log book (with proper indexing) should be maintained by every supervisor /
	engineer of contractor, for respective area of work, on the job for detailing and
	incorporating alignment/ clearance / centering / levelling readings and inspection
	details of various equipment, etc. This log book shall be always accessible to BHEL
	engineers.
	High pressure welding (as applicable under the scope of this contract) details like
	serial number of weld joints, welders name, date of welding, details of repair, heat treatment etc. will be documented in welding log as per BHEL Engineer's
	instructions.
	Record of radiography (as applicable under the scope of this contract) containing
	details like serial number of weld joints, date of radiography, repairs, if any, re-shots
	etc. shall also be maintained as per BHEL Engineer's instructions.
	Record of heat treatments (as applicable under the scope of this contract)
	performed shall be maintained as prescribed by BHEL.
22.1.5	The performance of welders (as applicable under the scope of this contract) will be
	reviewed from time to time as per the BHEL standards. Welders' performance
	record shall be furnished periodically for scrutiny of BHEL's Engineer. Corrective
	action as informed by BHEL shall be taken in respect of those welders not conforming to these standards. This may include removal/ discontinuance of
	concerned welder(s). Contractor shall arrange for the alternate welders
	immediately.
22.1.6	Only welders duly authorized by BHEL / customer / consultant after welder
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	qualification test as per ASME Sec-lx / AWS D1.1 (as applicable) shall be engaged on the work. All the welders shall carry identity cards as per the proforma prescribed by BHEL / Customer / Consultant.
22.1.7	Any re-laying or re-termination of cables / re-erection of instruments / recalibration of instruments etc. required due to contractor's mistake and found at any stage inspection shall be carried out by the contractor at no extra cost. Repair / rectification procedure to be adopted to make any job acceptable shall be subject to the approval of BHEL.
22.1.8	Weekly Quality Review Meeting at site shall be organised by BHEL to discuss quality issues and next weeks inspection plans. Site in-charge of the contractor along with QAEs of the contractor must be present in the meeting with closure report of the issues raised by BHEL in the previous meetings.
22.2	REQUIREMENT OF ISO 9001
22.2.1	BHEL: PSER is accredited with ISO 9001 certification and as such this work is subject to various audits to meet ISO 9001 requirements.
22.2.2	The basic philosophy of the Quality Management System under ISO 9001 is to define the organizational responsibility, work as per documented procedures, verify the output with respect to acceptance norms, identify the non-conforming product / procedure and take corrective action for removal of non-conformance specifying the steps for avoiding recurrence of such non-conformities, & maintain the relevant quality records. The non-conformities are to be identified through the conduct of periodical audit of implementation of quality systems at various locations/stages of work. Suppliers / vendors of various products / services contributing in the work are also considered as part of the quality management system. As such the contractor is expected not only to conform to the quality management system of BHEL but also it is desirable that they themselves are accredited under any quality management system standard.
22.2.3	BHEL reserves the right to carry out quarterly quality audits 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 & surveillance.
22.2.4	Quality audits / 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 no way limit the liabilities and responsibilities of the contractor in earning satisfactory performances of equipment / service as per specification.
22.3	MMEs / MMRs
22.3.1	Contractor shall ensure deployment of reliable and calibrated MMEs (Measuring and Monitoring Equipment). The MMEs shall have test / calibration certificates from authorised / Government approved / Accredited agencies traceable to National / International Standards. Re-testing / re-calibration shall also be arranged at regular intervals during the period of use as advised by BHEL Engineer within the contract price. The contractor will also have alternate arrangements for such MMEs so that work does not suffer when the particular equipment / instrument is sent for calibration. Also if any MMEs not found fit for use, BHEL shall have the right to stop the use of such item and instruct the contractor to deploy proper item and recall i.e. repeat the readings taken by that instrument, failing which BHEL may deploy MME and retake the readings at Contractor's cost.
22.3.2	Contractor shall provide all the Measuring Monitoring Equipment (MMEs) required for completion of the work satisfactorily. These MMEs shall be of brand, quality and accuracy specified by BHEL Engineer and should have necessary calibration and

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	other certificates as per the requirement of BHEL Engineer. Decision of BHEL Engineer regarding acceptance or otherwise of the measuring instruments / gauges / tools for the work under this specification, is final and binding on the contractor. BHEL shall give an indicative list of MMEs required for this work else where in this contract and to be made available by the contractor. The list will be reviewed by BHEL site as per the requirement of approved FQPs and the contractor shall meet any augmentation needed wherever required.
22.3.3	It is the responsibility of the contractor to prove the accuracy of the testing / measuring / calibrating equipment brought by him based on the periodicity of calibration as called for in the BHEL's quality assurance standards/BHEL Engineer's instructions.
22.3.4	Re-work necessitated on account of use of invalid MMEs shall be entirely to the contractor's account. He shall be responsible to take all corrective actions, including resource augmentation if any, as specified by BHEL to make-up for the loss of time.
22.3.5	In the courses of erection, it may become necessary to carry repeated checks of the work with instruments recently calibrated, re-calibrated. BHEL may counter / finally check the measurements with their own MMEs. Contractor shall render all assistance in conduct of such counter / final measurements.
22.4	INSPECTION BY TS / FES / QA ENGINEERS OF BHEL UNITS / ENGINEERING CENTRES
22.4.1	Apart from day-to-day inspection by BHEL Engineers stationed at Site and Customer's Engineers, stage inspection of equipment under erection and commissioning at various stages may also be conducted by teams of Engineers from Field Engineering Services of BHEL's Manufacturing Units, Quality Assurance teams from Field Quality Assurance, Unit/Factory Quality Assurance and Commissioning Engineers from Technical Services etc. Contractor shall arrange all labour, tools and tackles etc. along with proper access for such stage inspections free of cost.
22.4.2	Any modifications suggested by BHEL FES and QA Engineers' team shall be carried out. Claims of contractor, if any, shall be dealt as per applicable clause of the contract, and provided such modifications have not arisen for reasons attributable to the contractor.
22.5	CONFORMANCE TO THE STATUTORY REQUIREMENTS (AS APPLICABLE UNDER THE SCOPE OF THE CONTRACT)
22.5.1	The work to be executed under these specifications has to be offered for inspection, at appropriate stages of work completion, to various statutory authorities for compliance with applicable regulations. The work related statutory inspections, though not limited to, are as under: 1) Inspectorate of Steam Boilers and Smoke Nuisance. 2) Electrical Inspector.
	3) Factory Inspector, Labour Commissioner, PF Commissioner and other authorities connected to this project work. The scope includes getting the approvals from the statutory authorities, which includes arranging for inspection visits of statutory authority periodically as per BHEL Engineer's instructions, arranging materials for ground inspection, taking rub outs for stamping of the pressure parts / pipes to be offered for inspection, submitting co-related inspection reports, documents, radiographs etc and following up the matter with them. Contractor shall also make all arrangements for offering the Products / Systems for inspection at location, as applicable, to the concerned authority.

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22.5.0	should be aware of the latest Boiler regulations and Electricity Act, including the amendments thereof, as applicable under the scope of this contract.				
22.5.3	Contractor shall comply with 'Qualification Tests for welders engaged in welding of Boilers and Steam Pipes under Construction, Erection and Fabrication at Site in India and in repairing Boilers and steam pipes by welding' in line with Chapter XIII of Indian Boiler Regulations-1950, for testing his welders / men / workers, including all associated fees, procedures, required instruments and equipment and their calibration there of. It shall be contractor's responsibility to obtain approval of Statutory Authorities, wherever applicable, for the conducting of any work which				
22.5.4	comes under the purview of these authorities, at his cost. The following fees shall be excluded from scope of Contractor: 1. Registration Fee as per Regulation 385 of Chapter IX of Indian Boiler Regulations-1950 or Registration Fee as per prevailing statutory boiler regulations. 2. Fees for inspection of Boiler at the site of Construction as per Regulation 395 A, sl no 4 of Chapter IX of Indian Boiler Regulations- 1950. However, all other fees like visit fees charged by the Boiler Inspector and other arrangements for his visit or visits till satisfactory completion of work, shall be				
22.6	included in scope of Contractor. STORAGE & PRESERVATION OF	WELDING ELI	ECTRODES &	OTHER BHEL-	
	ISSUED MATERIAL				
22.6.1	The contractor shall be responsible for storage & preservation of welding electrodes & other BHEL-issued materials as per BHEL Storage & Preservation Guidelines /				
	& other BHEL-issued materials as p Instructions.	er BHEL Stora		•	
22.7	-	/ SUB-C		tion Guidelines /	
22.7 Sl. No.	Instructions. PENALTIES ON VENDORS	/ SUB-C	ge & Preserva	tion Guidelines /	
	Instructions. PENALTIES ON VENDORS NON-COMPLIANCE OF QUALITY N	/ SUB-C NORMS Penalty for Domestic	ge & Preserva CONTRACTOR Penalty for Export	RS AGAINST	
SI. No.	Instructions. PENALTIES ON VENDORS NON-COMPLIANCE OF QUALITY N	/ SUB-C NORMS Penalty for Domestic Project	ge & Preserva CONTRACTOR Penalty for Export	RS AGAINST	
SI. No.	Instructions. PENALTIES ON VENDORS NON-COMPLIANCE OF QUALITY N Nature of Non-compliance Unavailability of QAE deployment schedule (duly approved by BHEL Site) matching with manpower requirement of approved L2	/ SUB-C NORMS Penalty for Domestic Project	ge & Preserva CONTRACTOR Penalty for Export Project	RS AGAINST Remarks Against each	
SI. No. GENERAL 22.7.1	Instructions. PENALTIES ON VENDORS NON-COMPLIANCE OF QUALITY N Nature of Non-compliance Unavailability of QAE deployment schedule (duly approved by BHEL Site) matching with manpower requirement of approved L2 schedule Unavailability of required number of QAE with proper experience & NDT certification as per the requirement	/ SUB-CONORMS Penalty for Domestic Project 0.10%	ge & Preserva CONTRACTOR Penalty for Export Project 0.10%	RS AGAINST Remarks Against each RA bill Per person per	

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22.7.4	Use of MMEs without valid calibration certificate	Rs. 1,000.00	\$16.00	Per equipment per instance	
22.7.5	Use of NDT equipment, welding equipment without having valid calibration certificate / condition not as per requirement	Rs. 1,000.00	\$16.00	Per equipment per instance	
WELDING &	NDT				
22.7.6	Unqualified welders carrying out welding / tack welding	Rs. 1,000.00	\$16.00	Per welder per instance. (Gate pass of the person shall be withheld)	
22.7.7	Not using portable oven for welding consumables	Rs. 500.00	\$8.00	Per welder per instance. (The consumables in the oven shall be confiscated)	
22.7.8	Not using electrodes pre-baked in baking oven	Rs. 500.00	\$8.00	Per instance. (The subject consumables shall be confiscated)	
22.7.9	Not using welding consumables of approved make & not using correct type of electrode as per approved EWS / Drawing / WPS	Rs. 1,000.00	\$16.00	Per instance. (The subject consumables shall be confiscated)	
22.7.10	Non-removal of welding slag and spatters after welding	Rs. 500.00	\$8.00	Per joint	
22.7.11	Not using NDT equipment as prescribed in the manual / FQP / guidelines / Contract	Rs. 1,000.00	\$16.00	Per equipment per instance	
22.7.12	Welder doing welding without valid job card	Rs. 500.00	\$8.00	Per instance	
22.7.13	Discrepancy observed in the weld joints identified by BHEL / Customer for RT vs RT film offered	Rs. 2,000.00	\$32.00	per joint	
MATERIAL MANAGEMENT					
22.7.14	Non-maintenance of grid pillar marking	Rs. 200.00	\$3.00	Per location week	
22.7.15	Mismatch of location of material in store area w.r.t. location mentioned	Rs. 500.00	\$8.00	Per instance	

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		I	I	
	in stock register			
22.7.16	Non-compliance of Preservation of material as per storage &	Rs. 1,000.00	\$16.00	Per equipment
22.7.17	Preservation manuals Not offering received material for verification within stipulated time as per contract	Rs. 500.00	\$8.00	Per instance
PAINTING &	ALLIED WORKS			l
22.7.18	Not using primer / paints of approved make and as per Specifications	Rs. 1,000.00	\$16.00	Per instance
22.7.19	Painting without proper surface preparation as per approved schedule / drawing / FQP	Rs. 500.00	\$8.00	Per instance
PROTOCOL	S & LOG SHEETS			
22.7.20	Delay in preparation of Protocols / Logsheets as per approved FQP within 3 days of completion of checks	Rs. 200.00	\$3.00	Per protocol per day delay
INSPECTION	N OF BOUGHT-OUT ITEMS / CONSU	MABLES		
22.7.21	Delay in offering inspection of Bought-out Items / Consumables / Aggregates (for items which need site inspection as per approved QP) within 3 days of receipt of material at site	1% of the item value of the LOT	1% of the item value of the LOT	per item per day delay after receipt of material
22.7.22	Delay in submission of required documents (viz. Invoice, Inspection Release Note, COC, MDCC, MTC as the case may be) of Bought-out Items (shop inspection items / consumables) with in 3 days of receipt of material at site.	1% of the item value of the LOT	1% of the item value of the LOT	per item per day delay after receipt of material

NOTE:

Any non-conformity requiring dismantling / rework, attributable to vendor / sub-contractor, shall be penalised at a rate mentioned above or cost to BHEL, whichever is higher.

23.0	DELETED	
24.0	DELETED	
25.0	OCCUPATIONAL HEALTH, SAFETY & ENVIRONMENT MANAGEMENT	
25.1	Refer Document Number: Doc. No.: HSEP:14-SGD Rev.: 01 Date: 20.07.20 Document Title: Health, Safety and Environment Plan for Site Operation by Subcontractors for Sagardighi. Vendor has to follow HSE norms at project site during execution of entire contract	

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	period	
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 above, is solely attributable to the contractor, 0.5% per week of executable contact value, limited to maximum 2% of executable contact value, will be withheld.	
26.1.2	In case delay in achieving the specific activity as mentioned in Clause 18.1.2 above, is solely attributable to the contractor, 0.5% per week of executable contact value, limited to maximum 3% of executable contact value, will be withheld.	
26.1.3	Amount already withheld, if any against slippage of clause 18.1.1, 18.1.2 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	In case of LD recovery, the applicable GST shall also be recovered from vendor/Contractor/ suppliers.	
NOTE:-	Executable Contract Value – Value of work for which inputs/ fronts were made available to contractor and were scheduled for execution till the date of achievement of the Milestone.	
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	EXTENSION OF TIME FOR COMPLETION	
29.1	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.	
29.2	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 less the backlog attributable to the contractor shall be quantified, and the number of	

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	months of 'Time extension' required for completic	
worked out. Within this period of 'Time extension', the cont complete the portion of backlog attributable to contractor. Furth		·
	or 'Time extensions' at the end of previous extension	
29.3	However, if any 'Time extension' is granted	
29.5	continuation of work and completion of contract, d	
	contractor alone, then it shall be without prejudice	9
	penalty / LD for the delays attributable to the con	
	actions BHEL may wish to take at the risk and cost	
29.4	A joint program shall be drawn for the balance at	
23.4	during the period of 'Time Extension', along w	
	deployed by the contractor as per specified format	_
	record of shortfall shall be done.	review of the programme and
29.5	During the period of 'Time extension', contractor s	shall maintain their resources as
25.5	per mutually agreed program.	man mantain then resources as
29.6	At the end of total work completion as certified	by BHFL engineer and upon
20.0	analysis of the total delay, the portion of time	•
	Contractor, (ii) Force majeure conditions, and (iii)	
	shall be considered to be exhausted in the same	· ·
	extensions shall be the sum of (i), (ii) and (iii) abo	•
	between the scheduled date of completion and the	
	contract. LD shall be imposed/ levied for the portio	•
	solely to contractor after adjusting delay attributable	
	recoverable from the dues payable to the contractor	-
30.0	PAYMENT FOR ADDITIONAL/EXTRA ITEMS FOR	
30.1	It shall be as per relevant clause of the GCC.	
	However for Enabling work, "CPWD Schedule of F	Rates 2018" as mentioned in the
	price schedule will be considered.	
31.0	TOOLS & PLANTS (TO BE PROVIDED BY CONTR	RACTOR)
31.1	Tentative list of T&P to be deployed by contractor for successful completion of wor	
	is detailed below. No T&P shall be provided by BHE	
31.2	It may be noted that the list is not exhaustive and is	
	contractor is required to provide all necessary	, , ,
	instruments, lifting and handling equipment to ma	
	completion of total work as per contract. In case	
	activities may have to pre-pone. In such cases the	
	additional T&P. Quoted rate shall be inclusive of	• • •
04.0	However, contractor shall submit deployment plan o	
31.3	In the event of any failure on the part of the contra	
	desired work progress, BHEL may at his discretion	
	this ground and take out any or whole amount of the	•
	contractor. In the event of failure of contractor to	• •
	T&P/ IMTEs to maintain work progress, BHEL will be at the risk & cost of contractor including transports	· · · · · · · · · · · · · · · · · · ·
	BHEL site/ other agency/ Customer & charges as a	
	contractor's RA bill. Decision of BHEL in this reg	• •
	contractor.	gara will be lilial a billuling off
31.4	Following Major T&Ps for Enabling job as to be a	rranged by contractor within the
J1. 7	indicated time	Transport by contractor within the
31.4a	Major T&P items (for Enabling job)	Deployment Schedule
J 1. TU	ajo: i.a. itaino (ioi Enabinig job)	

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		from Start date	
31.4a.1	1 Nos. Hydraulic Excavator / Poclain	within 20 days	
31.4a.2	1 Nos. Excavator cum loader (JCB)	within 15 days	
31.4a.3	1 no. dozer Within 15 days		
31.4a.4	3 Nos. dumper	Within 20 days	
31.4a.5	1 no. vibromax /earth compactor	Within 20 days	
31.4a.6	2 Nos. Concrete Mixer Machine	1 st Within 20 days. 2 nd	
		within 50 days	
31.4a.7	3 Nos. diesel driven Concrete vibrator with adequ	uate 2 Nos. Within 20 days,	
	needle	3 rd by 45 days	
31.4a.8	1 No. total station	As per site requirement	
31.4a.9	1 Nos. auto level & staff	Within 20 days	
31.4a.10	1 No. tractor with trailer	Within 20 days	
31.4a.11	1 Nos. DG set 50 KVA	As per requirement	
31.4a.12	Concrete compressive strength testing moulds – 12 N	los. Within 20 days	
31.4a.13	2Nos. Water Tanker – 3000 Ltr. Capcity	Within 20 days	
31.4a.14	1 no drinking water tank – 1000 lit.	Within 20 days	
31.4a.15	Portable fire extinguishers as below:		
	Soda acid – 2 sets.		
	Dry chemical powder – 2 sets	Within 30 days from	
	CO2 – 2 sets.	start of work	
	Water & sand bucket (4 buckets in one stand) – 2 sets		
31.5	T&P shown in the above mentioned list are tentative		
	requirement. Actual Mobilization schedule, based o	J. U.	
	construction schedule and material availability at site i		
	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.		
	·	uirement will be reviewed time to time at site and contractor will provide	
	additional T&P/equipment to ensure completion of en		
	without any financial implication to BHEL. All other T		
	contractor without any extra cost to BHEL. Vendor v		
04.0	certification regarding capacity etc. prior to dispatch of heavy equipment.		
31.6	All T&P and all IMTEs, which are required for success		
	work covered within the scope of this tender, shall be	arranged and provided by the	
24.7	contractor at his own cost in working condition. In the event of non-mobilization of any T&P by the successful bidder and as a result		
31.7			
	progress of work suffered, BHEL reserves the right to		
	the dues of the bidder, with assigning reasons thereof		
31.7.1		Recovery rates	
31.7.1		Rs. 15000/- per week or part thereof	
31.7.2			
51.7.2		Rs. 20000/- per week or part thereof	
31.7.3			
51.7.3	· ·	Rs. 10000/- per week or part thereof	
31.7.4			
51.7.4	·	Rs. 15000/- per week or part	
21 7 5		thereof	
31.7.5	Concrete wixer watchine	Rs. 5000/- per week or part	

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		thereof	
31.7.6	Total station	Rs. 500/- per week or part thereof	
31.7.7	Auto level & staff	Rs. 300/- per week or part thereof	
31.7.8	DG set 50KVA	Rs. 5000/- per week or part thereof	
31.7.9	Concrete compressive strength testing moulds	Rs. 100/- per week or part thereof	
31.7.10	Water Tanker – 3000 Ltr. Capcity	Rs. 5000/- per week or part thereof	
31.7.11.1	Drinking water tank – 1000 lit.	Rs. 500/- per week or part thereof	
31.7.11.2	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	
31.7.12	Any other instrument	As per discretion of the engineer	
32.0	Mobilization period.		
32.1	Mobilization Period: Mobilization within 15 days from the date of written intimation from BHEL.		
33.0	OTHER TERMS		
33.1	All other term & conditions of this specification shall be governed by the pertinent provisions of GCC and other volumes of this tender, as applicable.		