

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 02

Ref: PSER:SCT:BAR-C2170:TCN-02

Sub	Tend	er Change Notice (TCN) - 02	
Job		Construction of 01 no 150 Meter high reinforced concrete single steel flue Chimney(including piling) with	
		licate glass block lining and other incidentals works all complete for FGD system of unit-2 at 3x660	
	MW Barh STPP Stage-I, Bihar.		
Ref	1.0	Tender no PSER:SCT:BAR-C2170:22	
	2.0	BHEL's NIT, vide reference no PSER:SCT:BAR-C2170:9451 Date: 29-09-2022	
	3.0	BHEL's TCN-01, vide reference no PSER:SCT: BAR-C2170:TCN-01, dated 30-09-2022	
	4.0	All other pertinent issues till date.	

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

- 1.0 Revised Volume-IF-TCC-CML-Rev-01 is attached, superseding Volume-IF-TCC-CML-Rev-00 issued earlier along with NIT. Bidders are requested to go through entire volume before submitting their offer.
- 2.0 Revised `No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 3.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully, for BHARAT HEAVY ELECTRICALS LTD

Date: 12-10-2022

DY. MGR (SCT)

Encl: As above.

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These Technical conditions shall be construed as part of tender document and shall be read along with General Conditions of Contract. In case of any conflict or inconsistency between the general and these technical conditions, the same shall be brought out by the bidder in writing to BHEL for clarification during pre-bid discussions; failing which most stringent interpretation / clause in favour of BHEL shall be adopted and the same shall be binding to the contractor.

CLAUSE NO	DESCRIPTION
1.1	PROJECT SYNOPSIS AND GENERAL INFORMATION
	Project name: BARH SUPER THERMAL POWER PROJECT, STAGE-I
	No. of Units x capacity: 3 X 660 MW
	Project setting up by: National thermal Power Corporation
	Project Location : (i) Place: BARH
	: (ii) District: PATNA
	: (iii) State: BIHAR
	Nearest Railway station: BARH
	Distance of project location from the Railway station: 3.0 KM (Approx.)
	Nearest town: BARH
	Distance of the town from the Project site: 4.0 KM
	Nearest Commercial Airport: PATNA
	Distance of airport from the project site: 75 KM.
	Nearest Road Head: National Highway-31.
2.0	SITE VISIT
	The contractor should visit project site and acquire full knowledge and information
	about conditions prevailing at site and in & around the plant premises, together with all the statutory, obligatory, mandatory requirements of various authorities necessary for
	preparing the bid and entering into the contract. All costs for and associated with site
	visits shall be borne by the bidder.
3.0	SCOPE OF WORK
3.1	The work to be done under this specification comprises of construction of 01 no 150 M
3.1	high reinforced concrete single steel flue chimney and other incidentals complete as
	detailed in the specification and elsewhere in the tender document, for Chimney for
	Unit#2 of FGD system at 3 X 660 MW Barh Super Thermal Power Project, Stage-I,
	Bihar
3.2	The scope of work is as follows:
	A. Construction of 01 numbers 150-meter-high reinforced concrete single flue
	steel lined chimney and other incidentals as detailed in the specification in the
	tender document including providing all labour, consumables, equipment,
	temporary works, temporary storage sheds, temporary colony for labour and
	staff, temporary site offices, construction plants, transportation/handling and all
	incidental items not shown or specified but reasonably implied or necessary for
	the completion of subject scope, all in strict accordance with the specifications
	including revisions and amendments thereto as may be required during the
	execution of work.
	B. Supply including design, receipt, unloading, erection, testing and
	commissioning of stack elevator and electrical equipments; allied items,
	cabling, earthing, spares etc. are also under the scope of this work. The complete works have to be carried out by providing all labour, supervision,
	materials, scaffolding, power, fuel, construction equipments, tools & plants, inspection, measuring, testing instruments, supplies, transportation, storage,
	and all incidental items not herein specifically mentioned but reasonably or
	found required for the successful completion of work including contractor's and
	where necessary manufacturer's expert supervision in strict compliance with
	the requirement of this specification and approved construction drawing.
	C. Installation of Borosilicate Glass Lining inside MS Flue Cans, including surface
	preparation, application of primer, adhesive etc. as per the technical
	specifications and approved erection procedure under the expert supervision
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	of Borosilicate Glass Lining manufacturer /supplier. The complete works have to be carried out by providing all labour, supervision, materials, scaffolding, power, fuel, construction equipment, tools & plants, inspection, measuring, testing instruments, supplies, transportation, storage, and all incidental items not herein specifically mentioned but reasonably or found required for the successful completion of work.
3.3	The bidder's scope shall include excavation in soil and rock (if any with/without blasting as per the site conditions), dewatering, dressing to required profile, sheet piling or shoring/strutting, backfilling around completed structures and plinth filling, plinth protection, disposal of surplus earth and rock, concreting including Reinforcement and Formwork, Masonry work, Plastering, Painting, Flooring, Installation of borosilicate lining, Doors/Windows, Ventilators, Fire Proof Doors, Insulation, Roof Water Proofing, Dismantling of existing structures (below ground and above ground- RCC, Brick Works, Sheeting, Structural steel and Other facilities), RCC and Brick/ Block masonry and Steel Structures, fabrication and erection of all structural steel and miscellaneous steel (i.e. steel stair case, cable/duct/pipe supports, ladders, walkways, railing, Chequered plate/grating floor, inserts, anchor bolts, etc.), paving, Embedment, Earthing, Gravel filling, Precast covers, Expansion joints, Rain water pipe, Insulation, Gates/Valves, Water proofing of underground structures,Trenches, Final grading and site clearance before handing over to Owner and other auxiliary items of work, etc. all complete including supply of all materials, consumables, labor, Tools and plants, transportation and storage, Sample Testing etc. all complete as per BOQ, specifications and drawings for proper and successful execution of the job.
3.4	Ready mix cement concrete required for the tender scope shall be in the successful bidder's scope The cement shall be as per Technical specification, applicable IS Codes and description mentioned in the respective items of BOQ. Test certificates in respect of Cement for each consignment to be furnished and also to be tested as per FQP before use. The contractor shall submit the consumption statement of cement used in the works along with bill.
3.5	Fabricated Structure Steel Supply: Structural Steel required for the tender scope shall be shall be in the successful bidder's scope
	All steel structures shall be fabricated in factory, transported and erected at site. All factory fabricated structures shall have bolted field connections. Chimney flue liners can either be fabricated at factory in segments, transported and welded at site before erection or fabricated at site. For Chimney flue liners, to prevent flue gas leakages, the applicable field joints shall necessarily be welded. Structural Steel shall be fabricated at a suitable fabrication shop, outside the plant premises.
	BHEL/NTPC will visit the fabrication shop of Contractor to examine its suitability for the scope of work involved. However, contractor's fabrication shop shall be adequately equipped to handle the scope of work involved within the given time schedule. Any modifications / alterations as required to carry out the works shall be done by contractor at his own cost. No claim / compensation for delay in works on this account will be admitted.
	Contractor shall designate separate areas inside its fabrication shop for storage of Raw Materials as well as fabricated materials for this tender's scope and materials supplied for this work shall solely be utilized for this tender's purpose only. Safety, Watch and Ward, Insurance of the materials procured, fabricated and stored inside fabrication shop and transit insurance shall be the responsibility of the contractor. No claims / compensation on account of damage / theft of materials which is in the custody of contractor shall be permitted.
	Contractor shall give due notice in advance to BHEL for Stage Inspection of the works

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	being carried out at its fabrication shop as per the approved FQP. However, BHEL/NTPC Engineer shall be entitled to visit the Contractor's Fabrication shop at any feasible time during the period of execution to examine the progress and quality of work. Contractor shall always maintain all such records and provide facilities / equipment / MMEs as required by BHEL's Engineer for inspection of works within the quoted rates. Fabricated Structural Steel shall be dispatched from the shop only after getting the due clearance from BHEL /Customer. Transportation of fabricated structure steel / Raw Structure Steel from shop to site,
	Unloading, Handling / storage, at site, inside BHEL Yard / Contractor's store, will be in the scope of contractor. No extra payment for unloading / handling / transportation shall be paid to contractor.
3.6	The scope shall also include setting up by the bidder a testing room with compressive strength testing machine and other site test instruments for conducting day to day testing of concrete cubes, compaction of earth & road work, brick & other material testing. One qualified quality engineer to be deployed as necessary.
3.7	The working area shall be separated from the existing plant area by cordoning off the area by providing MS / GI sheets of suitable heights with appropriate frame work as approved by BHEL/ Customer. No extra payment shall be paid to contractor for this work.
3.8	The Customer National Thermal Power Corporation (NTPC) may depute their representative for checking and supervision of important stages of work. The contractor shall be required to provide all facilities for inspection of works at no extra cost to BHEL. Any defect in quality of work or deviations from drawings / specifications pointed out during such inspection shall be made good by the contractor in the same way as if pointed out by the BHEL Engineer, without any cost implication to BHEL.
3.9	The work under this contract shall be carried out as per BOQ Cum Rate Schedule. In case the description / specifications as per BOQ are found to be incomplete, Indian standard specifications shall be followed. Quantities mentioned in the BOQ cum Rate schedules are approximate only and liable for variation due to change of scope of work / variation in schedule of quantities, changes in design etc. The tenderers shall undertake to execute actual quantities as per advice of BHEL Engineer and accordingly the final contract price shall be worked out on the basis of quantities actually executed at site and payments will also be regulated for the same. The quantities indicated against each item may vary to any extent and no compensation will be payable in variation of Individual quantity.
3.10	The complete works shall be carried out as per BOQ cum Rate schedule. If any work covered in the scope of contract cannot be executed using items available in BOQ, additional / extra items shall be made and rates for such items shall be worked out as per tender. However contractor shall be bound to execute all the works under the scope of the contract and decision whether an extra item is applicable or not, shall be taken by BHEL Engineer which will be binding on the contractor.
3.11	Any activity which is necessarily required for satisfactory execution of any item of BOQ in line with technical specifications shall be deemed to be included in BOQ item even if it is not described in the item description and no extra payment shall be made against such activity.
3.12	The technical requirements for work to be executed under this specification shall be as per Specifications enclosed with this tender document.
3.13	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.
3.14	Contractor's scope also includes following:
3.14.1	Furnishing all labor, materials , supervision, construction plans, equipment, supplies, transport to and from the site, materials handling, fuel, electricity, compressed air,

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works not shown or specified but reasonably implied or necessary for the proper completion, maintenance and handing over the works, in accordance with stipulations laid down in the contract documents and additional stipulations as may be provided by BHEL Engineer during the course of works. 3.14.2 Eminishing samples of all materials required by the engineers for testing / inspectior and approval for use in the works. The samples may be retained by the engineer for final incorporation in the works. Furnishing test reports for the products used or intended to be used, if called for the specifications or if so desired by the engineer. 3.14.3 Arranging manufacturer's supervision for items of work done as per manufacturer's specifications when so specified. 3.14.4 The scope of work will also include such other related works although they may not be specifically mentioned in the above paragraph and all such incidental items no specified but reasonably implied and necessary for completion of the job as a whole all sa desired and as directed by the engineer. 3.14.5 The scope of work covered above is not a comprehensive list of items of work involved. The detail scope of work may vary considerably depending on the actual construction requirements. 3.15.1 ApproveD MANUFACTURER / SUB VENDOR 3.15.2 As instructed by BHEL and as per approved FQP, Materials to be procured by the bidder must be approved by BHEL / NTPC. A tentative list of suppliers of some of the items is provided herewith this document. For suppliers other than those mentioned it the list, specific approval of BHEL / NTPC. A tentative list of suppliers of some of the liens, specifically and the supplied through BHEL / NTPC approved stack elevator manufacturer as furnished below: Alikraft Engineers Pvt Ltd. Savil, Vadodara Universal Construction Machinery- Pune Sucessful bidder can propose name of vendors other than above mentined vendors but acceptance shall be subject to approval by NTPC. Decision of NTPC in this regard shall be final and binding to		
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		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

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VOLUME-IF-TCC-CML	TECHNICAL CONDITIONS OF CONTRACT	PAGE 6 OF 28
REV-01		

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6.4 The by E 6.5 Suc	
6.5 Suc	
6.5 Suc	the contractor will be responsible for handing back all lands, as handed over to him
	y BHEL/NTPC.
of a	successful bidder shall make their own arrangement for construction & maintenance
	f all weather approach road from the common approach road, for their site office,
	tores, working area, etc.
	VATER
	Contractor shall make all arrangements himself for the supply of construction water as
	vell as potable water for labour and other personnel at the worksite/colony. However,
	Irawl of construction/potable water from bore-well shall be permitted if found suitable.
Any	Any statutory clearance required shall be obtained by the contractor. Assistance, if
	equired shall be provided by the owner.
8.0 ELE	ELECTRICITY
	o meet the construction power requirement of the complete FGD and associated, the
Em	Employer shall provide Two Number 415V feeders in LT switchgears in each stage.
The	The Contractor shall extend supply from these Construction power feeders to meet
the	he construction because requirements at the contract leasting include 1 1 1 11
	ne construction power requirements at the various locations included in the
dist	he construction power requirements at the various locations included in the Contractor's scope through suitably rated Isolation Transformers along with LT
	Contractor's scope through suitably rated Isolation Transformers along with LT
	Contractor's scope through suitably rated Isolation Transformers along with LT listribution boards as per requirement. LT Packaged Sub-stations with isolation
	Contractor's scope through suitably rated Isolation Transformers along with LT
with	Contractor's scope through suitably rated Isolation Transformers along with LT listribution boards as per requirement. LT Packaged Sub-stations with isolation ransformers may also be used for this purpose. Suitable metering arrangement along with associated Instrument transformers and Metering Cubicles meeting the DISCOM
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with requ for	Contractor's scope through suitably rated Isolation Transformers along with LT listribution boards as per requirement. LT Packaged Sub-stations with isolation ransformers may also be used for this purpose. Suitable metering arrangement along with associated Instrument transformers and Metering Cubicles meeting the DISCOM equirements shall be provided by the Contractor at each Construction power feeder, or the measurement of actual energy consumed by the Contractor. The charges only
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with required for the second s	Contractor's scope through suitably rated Isolation Transformers along with LT listribution boards as per requirement. LT Packaged Sub-stations with isolation ransformers may also be used for this purpose. Suitable metering arrangement along with associated Instrument transformers and Metering Cubicles meeting the DISCOM equirements shall be provided by the Contractor at each Construction power feeder, or the measurement of actual energy consumed by the Contractor. The charges only or the actual energy consumed by the Contractor shall be recovered by the Employer based on prevalent rate of DISCOM for type of connection(HT/LT). Supply, erection, esting and commissioning of all equipments as required for further distribution for neeting the construction power requirements shall be in the Contractor's scope. All necessary statutory requirements for charging construction power of Contractor's network shall be in the Contractor's scope. Construction power supply network is a semporary arrangement which shall be used during the project construction phase. To neet this requirement, the equipments may be arranged by Contractor either by shifting their existing equipments at other installation or by fresh procurement, which may be taken back after commissioning of the project. Even though the Employer
Em The the Cor dist	Employer shall provide Two Number 415V feeders in LT switchgears in each stage. The Contractor shall extend supply from these Construction power feeders to meet

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8.2	claim for exemption/reduction of liquidated damages for delay in execution of the contract due to irregular power supply. Contractor shall arrange/provide necessary backup arrangement on his own for uninterrupted power supply. The Contractor shall maintain a minimum drawl power factor as per DISCOM regulations for their substations, and all such devices for maintaining power factor shall be under the scope of contractor. All temporary wiring must comply with local regulations and will be subject to Employer's inspection and approval before connection to supply. Power supply shall not be provided for use in labor and staff colony. Bidder shall arrange required illumination as and when required by them. The contractor shall have to make arrangement at their own cost for illumination that
	will be required in the working area for execution of the work & safety of workmen.
8.3	Contractor shall make arrangement of electricity of their own for labour colony.
9.0	CONSUMABLE
9.1	All consumables, like gas, electrodes, chemicals, lubricants etc. required for the scope of work, shall be arranged by the contractor at his cost from approved brand / make unless otherwise specifically mentioned in the contract.
9.2	All consumables to be used for the job shall have to be approved by NTPC / BHEL prior to use.
9.3	In the event of failure of contractor to bring necessary and sufficient consumables, BHEL may arrange for the same at the risk and cost of the contractor. The entire cost towards this along-with overhead shall be paid by the contractor or deducted from the contractor's bills.
10.0	TEST CERTIFICATES Necessary test certificates of all materials supplied by contractor are to be produced to BHEL prior to use of those materials.
11.0	The contractor shall ensure deployment of reliable and calibrated instrument, measuring, and test Equipment (IMTE). The IMTE shall have test calibration certificate from authorized / Govt approved agencies. The contractor shall also keep provision of alternate engagement for such IMTE so that the work does not suffer when a particular IMTE is sent for calibration. Re-testing/ re-calibration shall also be arranged by the contractor at their own cost at regular interval during the period of use as advised by BHEL.
12.0	QUALITY CONTROL & QUALITY ASSURANCE
12.1	INSPECTION & FIELD QUALITY ASSURANCE
12.1.1	Contractor shall carry out all activities conforming to the approved Field Quality 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.
12.1.2	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 shall be submitted to BHEL / customer for approval from time to time.
12.1.3	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.
12.1.4	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.

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	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.
12.1.5	The contractor has to take prior permission / approval before deployment of NDE &
	Heat Treatment agencies at site as per BHEL document no. PP-QLY-AA-DC-106/01-20.
	The contractor's employees involved in NDE & Heat treatment job must be qualified & experienced as per the requirement of the above document.
12.1.6	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. Currently, BHEL
	follows online Welder Performance Monitoring System. Contractor shall extend necesary support, as deemed fit by BHEL site-in-charge, regarding data entry into the system.
	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.
12.1.7	Only welders duly authorized by BHEL / customer / consultant after welder qualification test as per ASME Sec-IX / 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.
	High Pressure welders and welders of special materail viz. C276, Ti, etc., must be trained & tested by experts from BHEL-WRI/ other units. Necessary infrastructure for welder traning & testing, as per BHEL's instruction, to be arranged by the contractor without any extra cost to BHEL.
12.1.8	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. 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.
12.1.9	Weekly Quality Review Meeting at site shall be organised by BHEL to discuss quality issues and next weeks inspection plans. Site incharge 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.
12.2	REQUIREMENT OF ISO 9001
12.2.1	BHEL: PSER is accredited with ISO 9001 certification and as such this work is subject to various audits to meet ISO 9001 requirements.
12.2.2	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.
12.2.3	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 &

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	surveillance.
12.2.4	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.
12.3	MMEs / MMRs
12.3.1	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. Retesting / 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.
12.3.2	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 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.
12.3.3	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.
12.3.4	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.
12.3.5	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.
12.4	INSPECTION BY TS / FES / QA ENGINEERS OF BHEL UNITS / ENGINEERING CENTRES
12.4.1	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.
12.4.2	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.
12.5	CONFORMANCE TO THE STATUTORY REQUIREMENTS (AS APPLICABLE UNDER THE SCOPE OF THE CONTRACT)
12.5.1	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.
	2) Electrical Inspector3) Factory Inspector, Labour Commissioner, PF Commissioner and other authorities

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	connected to this project wor		the statuter:	authorities, which includes	
	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, arra				
	stamping of the pressure p				
	related inspection reports, of				
	with them. Contractor shall				
	Systems for inspection at loc				
12.5.2	Contractor should be qualified				
	the purview of IBR or Com				
	himself with CIB of state cor	ncerned / Compet	ant Inspector.	Contractor also should be	
	aware of the latest Boiler re			ncluding the amendments	
	thereof, as applicable under the scope of this contract.				
12.5.3	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 comes under				
	the purview of these authorities, at his cost.				
12.5.4	The following fees shall be e		pe of Contracto	or:	
	1. Registration Fee as per Regulation 385 of Chapter IX of Indian Boiler Regulations-				
	1950 or Registration Fee as				
	2. Fees for inspection of Boi				
	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				
10 /	satisfactory completion of work, shall be included in scope of Contractor.				
12.6 12.6.1	STORAGE & PRESERVATION OF WELDING ELECTRODES & OTHER BHEL-ISSUED MATERIAL The contractor shall be responsible for storage & preservation of welding electrodes &				
12.0.1	other BHEL-issued materia				
	Instructions.	do poi 21122	e eterage a .	receivation Calabinies ,	
12.7	PENALTIES ON VENDORS / S	UB-CONTRACTORS	AGAINST NON	I-COMPLIANCE OF QUALITY	
	NORMS				
		Penalty for	Penalty for		
SI. No.	Nature of Non-compliance	Domestic Project	Export	Remarks	
GENERAL		,	Project		
GENERAL	Unavailability of QAE			I	
	deployment schedule (duly				
	approved by BHEL Site)				
12.7.1	matching with manpower	0.10%	0.10%	Against each RA bill	
	requirement of approved				
	L2 schedule				
	Unavailability of required				
	number of QAE with proper				
12.7.2	experience & NDT	Rs. 1,000.00	\$16.00	Per person per day	
	certification as per the	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+ - 3.00		
	requirement of the				
	Contract Not attending quality				
	meeting of BHEL by				
12.7.3	nominated member of	Rs. 2,000.00	\$32.00	Per meeting	
	vendor / sub-contractor				
CALIBRATION		1		ı	
	Use of MMEs without valid	Do 4 000 00	\$46.00	Per equipment per	
12.7.4	calibration certificate	Rs. 1,000.00	\$16.00	instance	
12.7.5	Use of NDT equipment,	Rs. 1,000.00	\$16.00	Per equipment per	

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	welding equipment without	T		instance
	having valid calibration			IIIStarice
	certificate / condition not			
	as per requirement			
WELDING & N				
12.7.6	Unqualified welders carrying out welding / tack welding	Rs. 1,000.00	\$16.00	Per welder per instance. (Gatepass of the person shall be withheld)
12.7.7	Not using portable oven for welding consumables	Rs. 500.00	\$8.00	Per welder per instance. (The consumables in the oven shall be confiscated)
12.7.8	Not using electrodes pre-baked in baking oven	Rs. 500.00	\$8.00	Per instance. (The subject consumables shall be confiscated)
12.7.9	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)
12.7.10	Non-removal of welding slag and spatters after welding	Rs. 500.00	\$8.00	Per joint
12.7.11	Not using NDT equipment as prescribed in the manual / FQP / guidelines / Contract	Rs. 1,000.00	\$16.00	Per equipment per instance
12.7.12	Welder doing welding without valid job card	Rs. 500.00	\$8.00	Per instance
12.7.13	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 M.		<u>'</u>		
12.7.14	Non-maintenance of grid pillar marking	Rs. 200.00	\$3.00	Per location week
12.7.15	Mismatch of location of material in store area w.r.t. location mentioned in stock register	Rs. 500.00	\$8.00	Per instance
12.7.16	Non-compliance of Preservation of material as per storage & preservation manuals	Rs. 1,000.00	\$16.00	Per equipment
12.7.17	Not offering received material for verification within stipulated time as per contract	Rs. 500.00	\$8.00	Per instance
PAINTING & A	ALLIED WORKS	'		<u> </u>
12.7.18	Not using primer / paints of approved make and as per Specifications	Rs. 1,000.00	\$16.00	Per instance
12.7.19	Painting without proper surface preparation as per approved schedule / drawing / FQP	Rs. 500.00	\$8.00	Per instance
	PROTO	COLS & LOG SH	LETS	

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1 1/1/1 Littor items which heed site I value of the - Litem value - 1 ' ' '	12.7.20	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
of Bought-out Items / Consumables / Aggregates 1% of the item 1% of the item per item per day dela	INSPECTION	ON OF BOUGHT-OUT ITEMS	CONSUMABLES		
inspection as per approved LOT of the LOT QP) within 3 days of receipt of material at site	12.7.21	of Bought-out Items / Consumables / Aggregates (for items which need site inspection as per approved QP) within 3 days of	value of the	item value	per item per day delay after receipt of material
Delay in submission of required documents (viz. Invoice, Inspection Release Note, COC, MDCC, MTC as the case value of the item value per item per day delated item value.	12.7.22	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	value of the	item value	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, which ever is higher.

13.0	OCCUPATIONAL HEALTH, SAFETY & ENVIRONMENT MANAGEMENT
	Applicable HSE norms shall be as per HSE Doc. No.: HSEP:14-ER, Rev-01 Dated
	08/05/2020, OPERATIONAL CONTROL PROCEDURE, Doc. No.: HSEOCP: 61A,
	Rev. No.: 00 dated 27.04.2020 & OPERATIONAL CONTROL PROCEDURE, Doc.
14.0	No.: HSEOCP: 61, Rev. No.: 01 dated 01.06.2020 of Tender. PROJECT MANAGEMENT/ CONSTRUCTION MANAGEMENT
14.0	
	To meet the need of construction management at site, contractor shall provide the following services within quoted/ accepted rates.
14.1	PLANNING & MONITORING
14.1.1	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 sub-system / component 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.
14.1.2	The bidder shall also prepare progress report indicating progress on key activities, management summary for critical activities, 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.
14.1.3	Portable office and other support services - The contractor has to arrange one
	Standard portable bunk house office with provision of Room Air Conditioners for
	official use of BHEL for seating arrangement of BHEL Personnel and
	meeting/discussion. The bunk house should have provision of necessary fittings like
	tube lights, fans and other fixtures like wiring etc. The size of BHEL office should be
	such that at least 1 almirahs, 1 file cabinets, 8 nos. chair and tables can be

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accommodated and these items is to be arranged by the vendor within the quoted rate and at no extra cost to BHEL. Regular maintenance and regular upkeepment and replacement of consumable items is included in vendor's scope. The contractor has to arrange one filters of at least 20 liters capacity for drinking water with regular cleaning, maintenance refilling arrangement of drinking water along with consumables/spares from time to time for arranging filtered drinking water. The contractor shall retain one office boy/peon in this office for up-keepment, documentation and other sundry jobs. This is included in the scope of work till handing over of the Unit to the customer. No payment on whatsoever account shall be entertained in this account by BHEL to the contractor. For vendor's office, vendor has to make their own arrangement.

The bidder will have to install 2 no PC (multimedia PC work station Pentium- core-i5-650, 3.2 GHZ or above, 500 GB HDD, 6 GB RAM, 100/1000 MBPS LAN card) of HP/DELL / HCL /LENEVO or equivalent make with window 10 (professional) 64 bit (with roll back to 32 bit O/S and required software like MS Office 2010 Professional or higher, AutoCAD 2014 or higher, PageMaker (7.0 etc), ADOBE PDF CREATOR with one no laser jet printer compatible for A4/A3 size printing (ink/ cartridge for which to be supplied as and when required) with power backup at places, as per instruction of BHEL for exclusive use of BHEL.

These computers / printers shall remain contractor's property and they will be allowed to take out the same after completion of contract period. The contractor shall provide data / information etc in prescribed formats for periodical updating of the progress reports, material management reports, updating of network pertaining to the contractor's scope of work etc.

The contractor shall also provide 1 (one) no computer operator and 2 (Two) number service staff for miscellaneous service for BHEL's use at site / Kolkata for reconciliation, progress review & day-to-day planning purpose, documentation etc. These facilities are to be provided within 30 days from LOI date till completion of scheduled contract period

In addition to the above, the contractor shall also provide 1 (one) no 07 seater AC vehicle of BHEL's sole utilization for the purpose of the work. Fuel, consumable, driver etc required shall be in contractor's scope only. These facilities are to be provided within 30 days from the date of start of work date till completion of scheduled contract period.

If contractor fails to provide computer / printer / personnel/Vehicle as per requirement, for a continuous period of fifteen days or more, BHEL shall have the right to deduct the amount as per following rates on prorate basis, from contractor's RA bill or any other dues.

- 14.1.3.1 @ Rs 20,000/- (Twenty thousand)/ month for each computer operator or at actuals (rate +5%) if BHEL arranges this facility, whichever is lower.
- 14.1.3.2 @ Rs 15,000/- (Fifteen thousand) / month for each service staff. Or at actuals (rate +5%) if BHEL arranges this facility, whichever is lower.
- 14.1.3.3 @ Rs 15,000/- (Fifteen thousand)/ month for each set of computer & printer. Or at actuals (rate +5%) if BHEL arranges this facility, whichever is lower.
- 14.1.3.4 @ Rs 40,000/- (Twenty thousand)/ month for vehicle or at actuals (rate +5%) if BHEL arranges this facility, whichever is lower.
- 14.1.3.5 @ Rs 40,000/- (Twenty thousand)/ month for portable office or at actuals (rate +5%) if BHEL arranges this facility, whichever is lower.
- In the event of the contract period getting extended beyond the stipulated time for reasons not attributable to you, above services of computer operator/ service staff / vehicle may either be withdrawn or retained as per instruction of BHEL. If services are retained, you will be reimbursed at the above mentioned rate or (actual +15%), whichever is lower, if the services of operator / service staff are being used by BHEL.No payment shall be made against retaining of computer & printer & portable

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	office.		
14.1.3.7	The contractor's site office must have facilities of communications like Computer with		
11.1.0.7	all facilities, E-mail, and telephone with STD facility within a month from LOI.		
14.1.4	A list contain supply of computers & printers with their workabality status and details of		
	supply of computer operators & service staff with their payment details will be quarterly		
	submitted by the successful bidder to BHEL.		
14.2	PROGRESS REPORTING		
14.2.1	The bidder shall submit daily, weekly and monthly progress reports for work force,		
	materials reports, consumables (gases / electrodes) report and other reports as per		
	pro-forma considered necessary by the 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.		
14.2.2	The progress report shall indicate the progress achieved against planned with reasons		
indicating delays, if any, and shall give the remedial actions which t			
	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.		
14.2.3	The daily work force reports shall clearly indicate the work force deployed, category-		
	wise specifying also the activities in which they are engaged.		
14.2.4	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.		
14.2.5	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		
1100	targets decided upon such meetings.		
14.2.6	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 through		
	email only. However, if required, bidder to submit hard copies of photographs as and		
	when required in line with instruction by BHEL site.		
	In case of failure in providing such soft and/or hard copies photographs, an amount of		
14.2.7	Rs. 1,000/- per instance shall be deducted from contractor's RA bill. Successful bidder has to provide for electronic / computerized storing and re-		
14.2.7	production/ printing/ plotting of various data, log sheets, protocols, measurements etc.		
	These may be stored in pen drive (as per requirement) and handed over to BHEL as		
	per requirement.		
14.3	SITE ORGANIZATION		
14.3.1	The contractor shall maintain a site organization of adequate strength in respect of		
17.5.1	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 of LOI.		
14.3.2	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.as		
	directed.		
14.3.2.1	Qualified safety officer (exclusive for One no. officer (from start of work)		
	safety supervision) One no. assistant (from start of work)		
	Total No. addition from diant of work)		

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14.3.2.2	Site supervising staff for Civil work	Minimum 1 no. engineers and 2 no. supervisors with two shift incharges during	
		shell construction.	
14.3.2.3	Site supervising staff for Structural work	One no. engineer and 1 nos. supervisors	
14.3.2.4	Engineer for quality inspection.	Two nos. (one no. from start of work, 2 nd as per site requirement)	
14.3.2.5	Material management, site enabling	One no.	
14.3.2.6	Enginner for Civil Laboratory	One no.	
14.3.3	Deputation of above man-power shall be jointly decided and agreed at site in line with construction schedule.		
14.3.4	Engineer / supervisor for other functions like store & purchase, material management, planning, fin, admn etc are to be provided as per site requirement and not considered above.		
14.3.5	Induction of further manpower regarding site supervisor & site engineer will be decided by BHEL at site as per requirement without any financial implication.		
14.3.6	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.		
14.3.7	In addition to above, a well experienced qualified engineer to be designated, as 'Project Co-cordinator', 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.		
14.3.8	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 written permission of BHEL.		
14.3.9	The contractor should also submit network programs for the erection of various items. These networks shall show the NTPC / BHEL hold points, which have to be cleared by NTPC / BHEL, or their authorized representatives before further erection can take place. These programs for the erection would clearly identify responsibilities of the contractor and NTPC / 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 of LOI.		
14.4	CONSTRUCTION MANAGEMENT		
14.4.1	Based on the approved program, the contractor shall submit a program of construction / erection / commissioning for the implementation. These programs would be amplified showing start of erection and subsequent activities and shall form the basis for site execution and detail monitoring. The three-monthly rolling program with the first month's program being tentative based on the site condition would be prepared based on these programs. The contractor shall also be involved along with NTPC / BHEL to tie up detailed resources mobilization plan over the period of the contract matching with the performance targets.		
14.4.2	The program would be jointly finalized by the site in-charge of the contractor with BHEL / NTPC's project coordinator as well as the site-planning representative. The erection program will also identify sequential events matching financial turnover.		
14.4.3	Theses network / Program must confirm to the overall requirement of the project schedule. The bidder should also ensure monitoring of these activities at least on weekly basis to start with and on daily basis whenever required by BHEL.		
14.4.4		Il documentary evidences towards payment of	
15.0	TEST CERTIFICATE FOR T&P All T&P, lifting tackles and pulling devices to be deployed by the contractor must bear valid / latest test certificates for their suitability, and the documents shall be preserved at site.		
16.0	T&P TO BE PROVIDED BY BHEL		
	No T&P shall be provided by BHEL on	=	

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17.0	MATERIAL HANDLING		
17.1	All material required for proper completion of job shall be provided by contractor. Material handling including unloading, storage, preservation, shifting/reshifting, watch & ward etc shall be in successful bidder's scope. Necessary open storage yard, semi-covered, covered storage sheds, approach roads, drains, illuminations etc shall be in successful bidder's scope and quoted rates shall be inclusive of this.		
18.0	ISSUE OF MATERIALS		
18.1	All material required for proper completion of job shall be provided by contractor and quoted rates shall be inclusive of this.		
19.0	CONSTRUCTION OF TEMPORARY OFFICE, STO		
19.1	The contractor shall arrange at his own cost cleaning of area allotted, construction of his temporary office, stores, cement godown etc. and also the watch and ward of all the above. Materials required for the same shall be provided by contractor at his own cost.		
19.2	BHEL contemplates to provide fabrication yard with in approx 1000 mtr from chimney. However, during execution, based on actual site conditions, requirement and layout and approaches, the above may change suitably.		
20.0	TOOLS & PLANTS (TO BE PROVIDED BY CONTI	RACTOR)	
20.1	Tentative list of T&P to be deployed by contractor for detailed at 20.4.		
20.2	It may be noted that the list is not exhaustive and is only for guidance. The contractor is required to provide all necessary T&P (other than those specified to be provided by BHEL, if any) measuring (calibrated) instruments & handing equipments 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 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 after order to BHEL / SITE.		
	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 arrange the same including mobilization, demobilization, hiring charge, fuel charge etc of same from any of BHEL site/ other agency & charges as applicable at the risk & cost of contractor and the same amount shall be shall be deducted from contractor's RA bill. Decision of BHEL in this regard		
20.3	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arranged demobilization, hiring charge, fuel charge etc of sagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount	
	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arranged demobilization, hiring charge, fuel charge etc of sagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor.	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard	
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20.4	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arranged demobilization, hiring charge, fuel charge etc of sagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor.	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard	
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20.4	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arrange demobilization, hiring charge, fuel charge etc of substantiation, hiring charge, fuel charge	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date	
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20.4 20.4.1 20.4.2 20.4.3	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arranged demobilization, hiring charge, fuel charge etc of substant agency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor. Following Major T&Ps to be arranged by contractor of Major T&P items Hydraulic Excavator/Poclain Dumper	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date	
20.4 20.4.1 20.4.2 20.4.3 20.4.4	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arrange demobilization, hiring charge, fuel charge etc of substantial be shall be deducted from contractor's RA bill will be final & binding on contractor. Following Major T&Ps to be arranged by contractor with Major T&P items Hydraulic Excavator/Poclain	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date	
20.4 20.4.1 20.4.2 20.4.3 20.4.4 20.4.5	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arranged demobilization, hiring charge, fuel charge etc of sagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor. Following Major T&Ps to be arranged by contractor of Major T&P items Hydraulic Excavator/Poclain Dumper Air Compressor 18 / 20 T Crawler/Tyre Mounted Crane	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date 1 no Within 20 days Balance as per requirement 4 nos Within 20 days Balance as per requirement As per site requirement As per site requirement 1 no	
20.4 20.4.1 20.4.2 20.4.3 20.4.4 20.4.5 20.4.6	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arrang demobilization, hiring charge, fuel charge etc of stagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor. Following Major T&Ps to be arranged by contractor of Major T&P items Hydraulic Excavator/Poclain Dumper Air Compressor 18 / 20 T Crawler/Tyre Mounted Crane Nextgen Hydra (10/12/14/18 MT cap) Welding Machine Motorized MS plate bending machine along	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date	
20.4 20.4.1 20.4.2 20.4.3 20.4.4 20.4.5 20.4.6 20.4.7 20.4.9	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arrang demobilization, hiring charge, fuel charge etc of stagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor. Following Major T&Ps to be arranged by contractor of Major T&P items Hydraulic Excavator/Poclain Dumper Air Compressor 18 / 20 T Crawler/Tyre Mounted Crane Nextgen Hydra (10/12/14/18 MT cap) Welding Machine Motorized MS plate bending machine along with angle bending device	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date 1 no Within 20 days Balance as per requirement 4 nos Within 20 days Balance as per requirement As per site requirement As per site requirement 1 no As per site requirement As per requirement As per requirement As per requirement As per requirement	
20.4 20.4.1 20.4.2 20.4.3 20.4.4 20.4.5 20.4.6 20.4.7 20.4.9	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arrang demobilization, hiring charge, fuel charge etc of sagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor. Following Major T&Ps to be arranged by contractor of Major T&P items Hydraulic Excavator/Poclain Dumper Air Compressor 18 / 20 T Crawler/Tyre Mounted Crane Nextgen Hydra (10/12/14/18 MT cap) Welding Machine Motorized MS plate bending machine along with angle bending device Transit Mixer (5 / 6 Cum capacity)	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date 1 no Within 20 days Balance as per requirement 4 nos Within 20 days Balance as per requirement As per site requirement As per site requirement 1 no As per site requirement As per requirement	
20.4 20.4.1 20.4.2 20.4.3 20.4.4 20.4.5 20.4.6 20.4.7 20.4.9	In the event of any failure on the part of the condesired work progress, BHEL may at his discretion ground and take out any or whole amount of the contractor. In the event of failure of contractor to de IMTEs to maintain work progress, BHEL will arrang demobilization, hiring charge, fuel charge etc of stagency & charges as applicable at the risk & cost of shall be shall be deducted from contractor's RA bill will be final & binding on contractor. Following Major T&Ps to be arranged by contractor of Major T&P items Hydraulic Excavator/Poclain Dumper Air Compressor 18 / 20 T Crawler/Tyre Mounted Crane Nextgen Hydra (10/12/14/18 MT cap) Welding Machine Motorized MS plate bending machine along with angle bending device	also terminate the contract on this e contract from the scope of the ploy necessary and sufficient T&P/ ge the same including mobilization, ame from any of BHEL site/ other of contractor and the same amount I. Decision of BHEL in this regard within the time as indicated: Mobilizing time from Zero Date 1 no Within 20 days Balance as per requirement 4 nos Within 20 days Balance as per requirement As per site requirement As per site requirement 1 no As per site requirement As per requirement As per requirement As per requirement As per requirement	

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00.4.4.4	curing) (lifting height shall be 175 metre).	Name of the second
20.4.14	2 Nos Reinforcement Bending Machine	Within 30 days
20.4.15	2 Nos Reinforcement Cutting Machine	Within 30 days
20.4.16	1 No Compression Testing Machine (200 T Cap)	Within 20 days.
20.4.17	Power Winch – 3 T	As per requirement
20.4.18	Power Winch – 5 T	As per requirement
20.4.19	Power Winch – 10 T	As per requirement
20.4.20	1 No Total Station	Within 20 days.
20.4.21	1 Nos Auto Level & Staff	Within 20 days.
20.4.22	1 nos DG set (suitable capacity as per	Within 30 days.
	requirement)	,
20.4.23	Concrete Cube Moulds	As per requirement
20.4.24	Slip / Inter form equipment set including	To be mobilized within 90
	required winches for man & material lifting, hydraulic spare pump, minimum 10% spare jack,jack rods, epoxy painted MS shutter plate, wooden planks, materials and passenger hoist with safety block (safety devices), safety ropes etc complete - 1 sets minimum.	days.
20.4.25	Strand Jack / winches with safety device lifting capacity 15 T	As per requirement
20.4.26	Hanging platforms with safety device	As per requirement
20.4.27	1 NosTrailor – 20T,	1 nos within 20 days.
20.4.28	1 No Drinking Water Tank – 1000 Lit.	Within 30 days.
20.4.29	1 No Ultra-Sonography Testing Machine for structural work.	As per requirement
20.4.30	1 No Radiography Source.	As per requirement
20.4.29	Radioset (VHF/UHF.)	Within 120 days.
20.4.31	1 nos - 30 Cum/Hr& 1 nos - 15 Cum/Hr capacity of	1 st Within 60 Days
	Automatic Batching Plant with Printing facility with required Silo for storing of Cement to be commissioned at Site.	2nd :As per requirement
20.4.32	Civil laboratory equipments as per list attached in ANNEX `A & A1'	Within 30 days.
20.4.33	Portable fire extinguishers as below:	Within 45 days.
	Soda acid – 4 sets.	-
	Dry chemical powder – 4 sets	
	CO2 – 2 sets.	
	Water & sand bucket	
	(4 buckets in one stand) – 3 sets.	
	Fire hose with nozzle (50 M length) – 2 sets.	
20.4.34	Hydraulic Rotary Piling Rigs alongwith required capacity	As per requirement
	of crane, compressor with all accessoseries for flushing	
	of piles bore for air lift technique and water cleaning	
	method, flushing pipe, tremie pipe, bentonite re-	
	circulation pump, bentonite feed pump, hose pipe for	
00.4.05	bentonite re-circulation.	A
20.4.35	Concrete Cube Moulds.	As per requirement
20.4.36	1 no Trailor – 15T.	As per site requirement
20.4.37	2 no Jack Hammer	As per site requirement
20.4.38	1 no JCB.	As per site requirement
20.4.39	1 sets - Kentledge arrangement (preferably concrete	Within 60 days

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	blocks with structural arrangement) with high capacity		
00.4.40	hydraulic jack, dial gauges for vertical load test of pile.		
20.4.40	Transit Mixer (5/ 6 cum capacity), peak period 4 nos.	3 Nos. within 30 days.	
00.4.44	transit mixer.	Balance as per site requirement.	
20.4.41	Self Priming Dewatering Pump 5 HP (diesel / electric).	1 No.Within 20 days. Balance as per	
00.1.10		site requirement.	
20.4.42	2 nos 10 HP Submersible Mono-Block Electric Pump	Within 60 days.	
	(KOS-1040+ of Kirloskar or equivalent).		
20.4.43	2 nos Self Priming Dewatering Pump 2 HP (diesel/	Within 30 days.	
	electric).		
20.4.44	1 no Dozer.	Within 25 days.	
20.5	T&P shown in the above-mentioned list and the		
	requirement considering parallel working. However,		
	as well as no. of T&Ps as mutually agreed at site for to. Numbers/ time of requirement will be reviewed to		
	will provide required T&P/ equipment's to ensure		
	schedule/target date of completion without any a		
	BHEL. Vendor shall give advance		
20.6	All T&P and all IMTEs, which are required for succe	essful 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.		
20.7	In the event of contractor failing to arrange the required tools, plants, machineries		
	equipment, material or non-availability of the same	_	
20.7.1	make alternative arrangement at the risk and cost of the contractor. Case 1: BHEL provides its own Capital T&P.		
20.7.1	In case the BHEL provides any T&P which is owner.	ed by RHEL hire charges (as per	
	BHEL norms) will be recovered from the contractor as per the prevailing BHEL corporate hire charges. In case, the T&P is specifically listed in "T&Ps to be deployed		
	by Contractor", "Hire charges applicable to outside agencies other than contractors		
	working for BHEL" will apply. If not listed, "hire charges applicable to contractor		
	working for BHEL" will apply. The hire charges of C		
	of operating expenses e.g. operator, fuel & cons	umables and the same shall be	
00.7.0	arranged by the contractor at his cost.		
20.7.2	Case 2 In all cases other than that specified in case 1 above, actual expenses incurred by		
	BHEL along with applicable overheads will be back-charges to the contractor.		
	In the event of need of change of type of any of major T&Ps, approval shall be taken		
	from BHEL Engineer in-charge prior to mobilization		
	required due to replacing the enlisted T&P as per		
	analyzing the production capacity and suitability of be	oth the T&Ps.	
21.0	CIVIL LABORATORY		
	Contractor shall establish and maintain civil la		
	equipment for conducting relevant site tests, as	•	
22.0	equipments to be deployed / arranged by the contractor are given in Annexure-A.		
22.0 26.1	CONSTRUCTION SCHEDULE INITIAL MOBILIZATION:		
20.1	On receipt of LOI/written intimation from BHEL Site	Construction Manager Contractor	
	shall discuss with Project Manager / Constru	5 .	
	mobilization. Contractor shall mobilize necessary		
	mobilization schedule mentioned in SL No 20.0 abov		
	Construction Manager.		
22.2	Entire work shall be carried out in accordance with		
	schedule, within the stipulated completion period. C		
	site engineer within 30 days of LOI/written intima		
	construction schedule (L-3/ L-4) indicating all mi		
	activities and get it approved from BHEL engineer.		
I	and based on progress vis-à-vis project requiremer	nt, contractor shall have to submit	

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	revised	d schedule for approval of BHEL.	
22.3		T DATE / ZERO DATE	
	The Actual Date of Start of Contract Period (Zero Date) shall be date of handing of		
		to contractor for work and shall be certified by the BHEL Engin	
22.4	SI. No.	Activity	Completion time
	1	Completion of Piling	3 months
	2	Completion of Raft foundations	6 months
	3	Completion of RCC Wind Shield (M1)	10 months
	4	Completion of Steel Flue (M2)	13 months
	5	Completion of Borosilicate Lining work	17 months
	5	Completion of all work for	18 months
22.5		actor shall submit structural fabricaton drawings within 15 days	
	of engi Vendo throug submis	ineering drawings by BHEL. r to ensure checking of detail drawing and obtaining app h the approved agency within 15 days from detail dra ssion date. Vendor has to ensure availability of approved liately after the approval.	proval from PEM awing fabrication
22.6	Contra Deffere	actor shall submit daily work program based on above const ement of above schedule is not acceptable. Contractor will ad source planning to be augmented to ensure completion as per	lhere to schedule
22.7	Above schedule is indicative. The contractor shall plan his work in such a manner so as to meet the overall project schedule, in consultation with BHEL/NTPC Engineer. In order to meet above schedule in general, and any other intermediate targets set, to meet customer/ project schedule requirements, contractor shall arrange & augment all necessary resources from time to time on the instructions of BHEL without any extra		
22.8	cost to BHEL. It may be noted that in the event, delay in completion is attributable to the contractor; BHEL will impose LD on the contractor as per clause no. 28.0 of TCC.		
23.0			' .
20.0	COMPLETION PERIOD The entire work under this scope shall be successfully completed within 18 (Eigtheen) months from the date of Start of work. Mobilisation period is 15 days from the date of LOI / intimation by Construction		(0 ,
24.0	Manager BHEL, Barh Site whichever is later. CERTIFICATE TOWARDS COMPLETION		
	The wo	ork under the scope of the contractor shall be deemed to have espects only when so certified by CM, BHEL / NTPC. The de gard shall be final and binding on the contractor.	
25.0		NSION OF TIME FOR COMPLETION	
25.1	If the completion of work as detailed in the scope of work gets delayed beyond the contract / completion period, the contractor shall request for an extension of the contract and BHEL at its discretion may extend the contract.		
25.2	Based on the reviews jointly signed, the works balance at the end of original contract period 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 the contractor. Any further 'Time extension' or 'Time extensions' at the end of the previous extension shall be worked out similarly.		antified, and the ne same shall be actor is bound to any further 'Time n shall be worked
25.3	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.		
25.4	A joint programme 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		

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	by the contractor as per specified format. Review of the programme and record of shortfall shall be done.
25.5	During the period of 'Time extension', contractor shall maintain their resources as per mutually agreed program.
25.6	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 to contractor and recoverable from the dues payable to the contractor.
26.0	INTEREST BEARING RECOVERABLE ADVANCE
	As per GCC.
27.0	SECURITY DEPOSIT & PERFORMANCE BOND
27.1	The total amount of Security Deposit will be 3% of the contract value. Other terms related to Security Deposit shall be as per GCC.
27.2	Performance bond is applicable for Borosilicate supply & application portion. The Bidder shall provide ten (10) year of full replacement guarantee for the system, and bear the cost of replacement, supply, installation all complete, if the lining system deteriorates or fails to protect the chimney flue liner. Performance Bond may be submitted as per the following modality:
	A. Bidder shall furnish Performance Bank Guarantee of 5% of the the work value excluding taxes and duties of item F26 of Rate Schedule before start of application work against the Guarantee Period mentioned above.
	OR
	B. Bidder shall deposit 5% amount of work value excluding taxes and duties of
	item F26 of Rate Schedule before start of application work against the
	Guarantee Period mentioned above. Alternatevely, Bidder may request BHEL
	to deduct the same from their RA bills corresponding the the work @ 10% from
	each bill.
28.0	LIQUIDATED DAMAGE/ PENALTY
28.1	Penalty for Intermediate Milestones
28.1.1	M1 and M2 shall be intermediate Milestones for this work. Refer Clause No. 26.4 above for M-1 & M-2.
28.1.2	In case of slippage of these identified Intermediate Milestones, Delay Analysis shall be carried out on achievement of each of these two Intermediate Milestones in reference to Form 14.
28.1.3	Incase delay in achieving M1 milestone is solely attributable to the contractor,0.5% per week of executable contract value* limited to Maximum 2% of executable contract value will be withheld.
28.1.4	Incase delay in achieving M2 milestone is solely attributable to the contractor,0.5% per week of executable contract value* limited to maximum 3% of executable contract value will be withheld.
28.1.5	Amount already withheld, if any, against slippage of M1 milestone, shall be released only if there is no delay attributable to contractor in achievement of M2 milestone.
28.1.6	Amount required to be withheld on account of slippage of identified intermediate milestone(s) shall be withheld out of respective milestone payment and balance amount (if any) shall be withheld @10% of RA Bill amount from subsequent RA bills.
28.1.7	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 intermediate milestones shall be adjusted

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	areinst ID as released as the sace may be
20 1 0	against LD or released as the case may be.
28.1.8	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 in to recovery.
	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 that milestone.
28.2	LIQUIDATED DAMAGE/ PENALTY FOR OVERALL DELAY
28.2.1	Applicable as per GCC.
29.0	CONTRACT PRICE
29.1	The bidder shall quote their rates strictly in accordance with prescribed Price schedule of Volume-III (Latest revision).
29.2	The quantities of the various items mentioned in the Price schedules, Volume-III are
	approximate, based on very preliminary information and may vary to any extent or to
	be deleted altogether.
29.3	The unit rate quoted for various items of BOQ shall include all the stipulation
	mentioned in the tender documents and nothing extra over BOQ rates shall be
	payable.
29.4	However, the contractor shall inform BHEL in case quantity variation of any item
	crosses + 50% (plus fifty percent) limit during execution and obtain approval/consent of
	CM, BHEL for execution of further quantity for this item.
29.5	Unless otherwise specified in price schedule, contractor shall obtain prior approval
	from BHEL / owner regarding manufacturer / make of all items under contractor's
	scope of supply
29.6	The bidder shall quote their rates strictly in accordance with prescribed Price schedule
	of Volume-III (Latest revision).
30.0	TAXES AND DUTIES
30.1	All taxes excluding GST (as specified elsewhere in the tender) but including, Charges,
	Royalties, BOCW Cess, 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.
30.2	GST payable by successful bidder as per GST Law shall be paid by BHEL, extra.
30.2	Hence, bidder shall not include GST in their quoted rates/ price.
30.3	Successful bidder shall furnish proof of GST registration with GSTN Portal covering
30.3	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.
30.4	
JU. 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.
30.5	
30.5	TDS under Income Tax Act shall be deducted as per prevailing IT rules from the bills. TDS under GST shall be deducted as per prevailing GST rules from the bills.
30.7.1	You may collect TCS under section 206C(1H) of Income Tax Act, 1961 if applicable.
30.7.1	In case, you collect TCS under section 200C(1H) of Income Tax Act, 1961, following
JU.1.Z	compliance is required.
30.7.2.1	TAN and PAN of vendor should appear in all invoices/claims. Copy of TAN /TCS
JU.1.Z.1	registration is to be submitted.
30.7.2.2	Amount of TCS and Assessable value on which TCS has been calculated should be
50.1.2.2	specified clearly in the invoice.
30.7.2.3	You shall be required to submit certificate of TCS in Form no. 27D within 15 days from
JU.1.Z.J	the due date for furnishing the statement of tax collected at the source.
30.7.3	In case, you do not collect TCS under section 206C(1H) of Income Tax Act, 1961,
30.7.3	following declaration is to be submitted alongwith each invoice: -
	"I/We hereby declare that I/We are not required to collect TCS under section

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	206C(1H) of Income Tax Act, 1961, on this bill.
30.7.4	In event of failure to comply with the provisions of the Act, or proper certificate no
	issued, or if tax collected but not remitted to the Government, or for any other reason
	and thereby causing loss to BHEL, the same shall be recoverable from the vendo
	with applicable interest.
30.7.5	You shall comply with all statutory amendment/notifications in this respect.
30.8	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 – 10AAACB4146P1ZU.
	PAN of BHEL-AAACB4146P
	Name - BHARAT HEAVY ELECTRICALS LIMITED
	Address - CONSTRUCTION MANAGER,3X660 MW STAGE 01 & 2X660 MW
	STAGE 02, BARH FGD SITE, GANGA BIHAR, NTPC TRANSIT CAMP, PO- BARH
	PATNA,BIHAR – 803213
30.9	Successful bidder to intimate immediately on the day of removal of goods (in case o
	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. and Email address – Shall be
	intimated later. Specific details of above shall be intimated to successful bidder by
30.10	BHEL at appropriate juncture. In case of delay in submission of above mentioned documents on the date of
30.10	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.
30.11	In case of raising any Supplementary Tax Invoice (Debit / Credit Note), successfu
00.11	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.
30.12	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
30.13	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, GS1
	amount shall be recoverable from successful bidder along with interest levied/ leviable
	on BHEL, as the case may be.
30.14	Successful bidder shall upload the invoices raised on BHEL in GSTR-1 within the
	prescribed time as given in the GST Act and the same is available to BHEL in FORM
	GSTR-2A/2B electronically through the common portal. 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 successfu
20.45	bidder along with interest levied / leviable on BHEL.
30.15	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.
30.16	Any new taxes & duties, if imposed subsequent to due date of offer submission as pe
55.10	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.
30 17	
30.17	Benefits and / or abolition of all existing taxes must be passed on to BHEL agains new taxes, if any, proposed to be introduced at a later date.

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	DETENTION ANOTHER
31.1	RETENTION AMOUNT
31.1.1	Retention Amount shall be 5% of executed contract value and shall be recovered at the rate of 5% from each Running Bill admitted, including PVC Bills. Alternatively, BG, in line with clause 1.12 of GCC, equivalent to 5% of Contract Value against Retention Amount can also be submitted before payment of first RA Bill. The validity of the said BG shall be initially for the contract period & shall be extended, if so required, up to acceptance of final bill. In case of increase in contract value, additional BG for 5% of differential amount shall be submitted by Contractor before payment of next RA Bill due. In case, contractor opts cash deduction from RA bills in the beginning & subsequently offers to submit BG later on, then refund of deducted retention amount may be permitted against submission of equivalent BG only once during the contract period.
31.1.2	Retention Amount / BG shall be refunded as per clause no 2.22.2 of GCC on confirmation of receipts of TCS certificates from vendor, as applicable and Confirmation of full GST credit to BHEL subject to receipt of corresponding payment from the customer. Any Interest if levied thereon for reasons elaborated in taxes, duties clause of the tender, which is not attributable to BHEL, will be recovered from RA bill/ final payment/ retention/ securities.
31.2	INTERIM PAYMENT
31.2.1	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. 5% of gross value of each RA bill shall be retained from each RA bill as 'rentention Amount' as described in clause no 31.1.1 above. All admissible recovery / adjustments etc. shall be made from the interim payable amount. This bill shall be processed based on joint measurement (BHEL & NTPC) & compliance of statury requirement required to customer for billing.
31.2.2	Out of this 95 %, 1.5 % of gross bill amount shall be paid in the following manner on certification by Engineer-in-charge 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.
31.2.2.1	0.7~% shall be paid on compliance of house keeping of vendor's working area and store/ office areas.
31.2.2.2	$0.3\ \%$ shall be paid on compliance of general illumination of vendor's working area and stores, office area
31.2.2.3	0.2~% shall be paid on compliance of applicable OHSAS requirement as per guidelines of BHEL/ PSER and as specified in the tender.
31.2.2.4	0.3~% shall be paid on compliance of applicable safety requirement as per guidelines of BHEL/ PSER and as specified in the tender.
31.2.3	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.
31.2.4	The contractor shall submit his running bill, once in a month at the end of each month. The RA bill complete in all respect, accompanied by SES (Service Entry Sheet) of NTPC(Customer) will be paid after 45 days of submission of bill, subject to completeness and correctness.Income Tax at the prevailing rates on gross value of work done & applicable surcharge shall be deducted from contractor's bill, unless exempted by Income Tax Authority.
31.2.5	Applicable GST, which can be claimed at any point, shall be released to you upon compliance of following:
31.2.5.1	You declaring such Invoice in your GSTR-1, and the same is available to BHEL in FORM GSTR-2A/2B.

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31.2.5.3	Confirmation of payment of GST thereon by you on GSTN Portal
31.2.6	Above is subject to receipt of goods / service and tax invoice thereof along with you declaring invoice in your return and paying GST within timeline prescribed for availing ITC by BHEL.
31.2.7	Tendered Job is on back to back basis with customer. Any recovery withheld/deducted by customer(NTPC) shall be backcharged to the vendor with applicable GST.
32.0	PRICE VARIATION CLAUSE(PVC) Applicable as Per GCC.
33.0	OVER RUN CHARGES(ORC) Applicable as Per GCC.
34.0	METHOD OF MEASUREMENT
34.1	Mode of measurement shall be as per relevant clauses of technical specification of this tender. In case the same is not available the relevant IS 1200 in conjunction of IS code 3385 shall be adopted. In case the same is also not available, the standard procedure adopted in CPWD shall be adopted. In case the same is also not available in CPWD, the measurement of the work done will be based on the mutual agreement between BHEL and contractor. In all the above cases, the interpretation of BHEL will be final and binding to the contractor.
34.2	Method of measurement for earth work shall be as per following:
34.3	Earthwork in excavation - Measurement shall be as per actual excavated quantity at site and as per clause 5.2.0 of Technical Specification, Section D, Sub-Section D1 of VOL-II B (Standard Technical Specification).
34.4	Earthwork in backfilling – Measurement shall be as per excavation quantity after deduction for concrete etc. Difference in final backfilled level with respect to initial ground level shall also be taken into account for deduction, if any, from excavation quantity.
35.0	EXTRA/ ADDITIONAL ITEMS OF WORK
	It shall be as per relevant clauses of GCC
36.0	DESIGN OFFICE AND FABRICATION DRAWING
36.1	Based on design drawings of structures, to be issued to the contractor from time to time by BHEL, contractor will prepare & submit within 15 days of receipt, the detail fabrication / shop drawing including tabulated form of bill of materials (BOM), joint calculations, for comments / approval of BHEL at the office of BHEL / PEM, Noida. BHEL reserves the right to assess the capability of the agency to be deployed by contractor for preparation of such fabrication drawing, and prior approval from BHEL Engineering office at Noida, is required for appointment of such agency.
36.2	Since time is the essence of the contract, the contractor must indicate the location of their design office where from such detailed activities will be made operative. It is preferred that the contractor have establishment / liason office at Delhi / Noida with a co-ordinator for better co-ordination with BHEL-PEM.
36.3	Contractor shall submit progress report pertaining to fabrication drawing, by 7 th of each month, drawing-wise, section-wise cumulative bill of materials for which engineering drawing has been issued to them and status of fabrication drawing.
36.4	Based on specification vendor has to design the electrical drawing & aviation lights for chimney within the time schedule mentioned in relevant clause. Based on approval from BHEL / NTPC, vendor has to procure & supply the materials at site.
36.5	As per specification, vendor has to submit the design, MQP & drawing for elevator. On approval of the same, vendor has to take further action for supplying the Elevator to site.
37.0	FABRICATION
37.1	All the fabrication of structural steel items (except work done at qualified shop(s) out side the project premises as per BOQ cum Price schedule) shall be done in fabrication yard inside project premises. Quality plan for structural works will be issued during execution stage upon approval of customer Bidders to note that all fasteners like MS / HT / HSFG bolts, nuts, lock nuts, washers

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	etc shall be supplied by bidder as per technical specification / drawings.	
37.2	Bidder, at his own cost, shall supply electrodes required for fabrication, erection of structural steel as per specification and approval of BHEL.	
38.0	INSURANCE	
38.1	Successful bidder shall arrange comprehensive MCE (marine cum erection) Insurance Policy for total supply & services scope 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, terrorism and other natural calamities as per Annexure-B.	
38.2	It will be your responsibility to replenish the items lossed/damaged in time without hampering the schedule of work and without waiting for settlement of insurance claim.	
38.3	Copy of insurance shall be provided to BHEL & NTPC before start of the work.	
39.0	GUARANTEE	
39.1	The works shall be completed to the entire satisfaction of the Engineer and in accordance with the completion schedule as specified in the Contract, and all unused stores and materials, tools, plant, equipment, temporary buildings, site office, labor hutments and other things shall be removed and the site and work cleared of rubbish and all waste materials and delivered up clean and tidy to the satisfaction of then Engineer at the Contractor's expenses.	
39.2	The Engineer shall certify to the contractor the date on which the work is completed and the date thereof for commencement of Guarantee Period.	
39.3	Guarantee period (Except Borosilicate lining) shall be 12 months from the date of start of guarantee period as per relevant clause of GCC. For Borosilicate lining, Bidder shall provide ten (10) year of full replacement guarantee for the system, and bear the cost of replacement, supply, installation all complete, if the lining system deteriorates or fails to protect the chimney flue liner.	
40.0	OTHER TERMS	
40.1	While bidder's scope include deployment of all resources, like T&P, materials, consumables, manpower including supervision etc for proper completion of the subject job and no sub-contracting for execution of the job is allowed by BHEL, depending on project's requirement and on prior acceptance of BHEL, bidder may associate agencies for deployment of skilled / unskileld manpower only for site execution. Bidder should arrange all resources, like T&P, materials, consumables, supervision etc directly for the subject job.	
40.2	Drawing showing enough details for the construction as per the specification shall be furnished to the contractor in a phased manner as far as possible.	
40.3	The records / log-books / registers like Site Order Book, Hindrance Register, RMC / Steel Supply and Consumption Register, etc. are to be maintained properly by the vendor duly signed by BHEL representative.	
40.4	All other term & conditions of this specification shall be governed by the pertinent provisions of SCC & GCC as applicable.	

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ANNEXURE- A

TENTATIVE LIST OF EQUIPMENTS FOR CIVIL SITE LABORATORY

		CONCRETE TEST	ING EQUIPMENT	
SL NO.	NAME OF TEST	NAME OF EQUIPMENT	SIZE OF EQIPMENT	IS REF.
1	Concrete Compressive test	Digital Compressive Testing Machine with 2000 KN capacity.	2000KN capacity	IS 2505
2	Concrete Cube casting	Concrete Cube Mould	150x150x150mm, minimum 50 sets desired considering Raft/Shellconcereting activity. & 70.6 x 70.6 x 70.6 mm, 05 Nos. minimum	IS 10086
3	Workability of concrete	Slump cone	Standard, atleast 04 nos	IS 456
4	Electric mortar mixer	0.25 CUM capacity.	01 no	

	Soil Testing Equipment (Levelling& Grading)				
1	Liquid limit test	Liquid limit apparatus	Standard	IS 2720	
2	Core Cutter test	core cutter apparatus	Rammer, 4nos of standard core cutter mould, dolly	IS 2720	
3	Proctor density test	Std proctor Compaction apparatus	Standard	IS 2720	
4	Moisture Content	Rapid moisture meter	Standard, atleast 04 nos	IS 2720	

	Process Control Accessorie	S	
1	Hot air oven	Temperature range	600x600x600mm
		50° C to 300° C	(min.size)
2	Electronic balance	1 no.	1Kgx 0.001g
3	Physical balance	5 kg capacity	Weights upto 5 kg
4	Thermometer	Temperature range 0° C to 150° C	Digital
5	GI tray	03 nos	600x450x50mm,
			450x300x40mm,
			300x250x40mm
6	Measuring jars	2 nos set of each	100ml, 200ml, 500ml &
		size	1000 ml
7	Gauging trowlers	2 nos	100mm & 200 mm with
			wooden handle
8	Spatula	2 nos each size	100mm & 200 mm with
			long blade wooden handle
9	Stainless steel scoop	2 nos each	1 kg and 2 kg
10	Digital pH meter	01 nos	.01 mm least count

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11	Digital paint thickness meter for steel	02 nos	500-micron Range	
12	Digital paint thickness meter for masanory/concrete painting measurement	02 nos	150-micron range	

Other lab equipments

	Other lab equipments			
SL NO.	NAME OF TEST	NAME OF EQUIPMENT	SIZE OF EQIPMENT	IS REF.
1	Initial & final setting time, Consistency of cement	Vicat Apparatus with desk pot	Standard	IS 5513
2	Abrasion value test	Los Angles Abrasion testing machine	Standard	IS 2386
3	Aggregate Impact value test	Aggregate Impact value testing machine.	Standard	IS 9377
4	Aggregate crushing value test	Crushing value apparatus	Standard	IS 2386
5	Flakiness index	Thickness gauge for measuring flakiness index.	Standard	IS 2386
6	Elongation Index	Elongation gauge	Standard	IS 2386
7	Bulk density, voids and bulking apparatus	Measuring cylinders	3, 5,10 & 15 liters cylinders	
8	Specific gravity of aggregates	Pycnometer	Standard, at least 02 nos	IS 383
9	Cement mortor vibration	Motorised vibration machine for cement cube casting	Standard	IS 4031
10	Course aggregate Sieve analysis (Ready mix concrete & Road Works)	Sieve set	450mm dia GI Frames Size: 125 mm, 90 mm, 75 mm, 63 mm, 53 mm, 40 mm, 20 mm, 16 mm, 12.5 mm, 10 mm, 4.75 mm, Pan and cover (2 Sets)	IS 383
11	Fine aggregate sieve analysis	Sieve set	200 mm dia Brass sieves; Size 4.75 mm, 2.36 mm, 1.18 mm 600 micron, 300 micron, 150 micron, 75 micron, 75 micron, Pan and cover (2 Sets)	IS 383
12	Seive Shaker	Motorised Sieve shaker	Mfg. Catalogue	
13	Silt content check	Sand silt content beaker	Standard	

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ANNEXURE-B

Project Insurance Requirements

The contractor shall at his cost take out and maintain in effect, during performance of the contract (normal period + extension period, if any), the following project insurance policies as per details below: -

- 1. Marine cover: Marine cover policy @ sum insured value of
 - A) 110% Ex works value of plant & equipment including spares etc +
 - B) Applicable taxes and duties +
 - C) Escalation 5% of A) & B)

Open cargo policy with all risk Institute Cargo Clause 'A', WAR, SRCC, terrorism cover, Institute replacement clause, special replacement clause (Air duty) & deferred unpacking clause.

Insurers right of subrogation against all parties (excluding carrier) waived.

Warehouse to Warehouse basis.

Conditions: BHEL (Beneficiary) & NTPC (Principal beneficiary) to be named as beneficiary for the above policies.

- 2. Storage Cum Erection (SCE) cover: SCE policy @ sum insured value of
 - A) 110% Ex works value of plant & equipment including spares etc +
 - B) Applicable taxes and duties +
 - C) Cost of Erection + civil + structural and allied works +
 - D) Escalation 10% of A), B) & C)

SCE cover shall have RMSTD, air freight cover, Maintenance cover, CPM policy if applicable, Cross Liability, Additional customs duty for imported machines (if any), Employers (BHEL & NTPC) and subcontractors to be named as co-insured.

3. TPL: TPL cover with AOA of Rs 50 Lakhs. Employers (BHEL & NTPC) and subcontractors to be named as co-insured.

Notwithstanding the insurance requirements mentioned above, it would be the contractor's responsibility to take adequate insurance cover as may be pertinent to protect his interest and interest of the employer. If it is found that the insurance policies are inadequate, the contractor shall take fresh insurance policies meeting aforesaid requirements. The employer reserves the right to make suitable recovery from the contractor, if any.

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		Construction of 01 no 150 Meter high reinforced concrete single steel flue Chimney(including piling) with		
		ilicate glass block lining and other incidentals works all complete for FGD system of unit-2 at 3x660		
	MW E	Barh STPP Stage-I, Bihar.		
Ref	1.0 Tender no PSER:SCT:BAR-C2170:22			
	2.0	BHEL's NIT, vide reference no PSER:SCT:BAR-C2170:9451 Date: 29-09-2022		
	3.0 BHEL's TCN-01, vide reference no PSER:SCT: BAR-C2170:TCN-01, dated 30-09-2022			
	4.0 BHEL's TCN-02, vide reference no PSER:SCT: BAR-C2170:TCN-02, dated 12-10-2022			
	5.0	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)