



PROJECT INFORMATION

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JOB: INSPECTION/RECTIFICATION OF BUCKSTAY AND REPLACEMENT OF WATER WALL PRESSURE PART AND OTHER MISCELLANEOUS WORK AT UNIT NO.2 BOILER OF 2X800 MW NTPC GADARWARA

PROJECT INFORMATION

Name of the Owner	NATIONAL THERMAL POWER CORPORATION LTD.(NTPC)
Name of Customer	NTPC
Address	Gadarwara Thermal Power, near Chichli & Umaraiya villages, Tehsil-Gadarwara
District	Narsinghpur
Nearest Railway station	Gadarwara Railway Station
Nearest Road	Gadarwara is located on the MP SH22
Nearest City	Jabalpur
Nearest Airport	Dumna Airport, Jabalpur
Highest Temperature	45° C
Lowest Temperature	1° C
Elevation	354.77 meters

Note: - The bidder is advised to visit and examine the site of WORKS and its surroundings and obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into the CONTRACT. All costs for and associated with site visits shall be borne by the bidder.

Handwritten signature and date:
24/06/2020



SCOPE OF WORK

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SUMMARY OF SCOPE OF WORK

Tender specifications cover completion of following jobs during unit shutdown in Boiler Unit-2:

- Erection of scaffolding on the exterior of the furnace.
- Inspection of Buckstay and Water walls as per mentioned elevations
- Rectification of Buckstay and supports as per mentioned elevations
- Removal and application of cladding sheet and insulation wool
- Removal and application of castable/pourable refractory
- Replacement of water wall panels
- Installation of new MTM thermocouples
- Other miscellaneous work as per tender specification

Above work is to be carried out by supplying the Manpower, T&Ps, required Consumables, Scaffolding material, etc. at Unit no.2 Boiler of 2x800 MW NTPC Gadawara.

10.00 DETAIL SCOPE OF WORK UNDER THIS TENDER SPECIFICATION INCLUDES AS MENTIONED BELOW:

10.10 SCAFFOLDING WORK AND INSULATION WORK

- Transportation & Erection of scaffolding for inspection of water wall (Left side, Right side & Front side), insulation removal, reapplication and cladding sheet of complete vertical water wall is to be considered from transition header approx. EL. 67,650 mm to roof EL. 96,050 mm.
- The insulation, cladding sheets, refractory, and associated materials shall be completely removed from all water wall panels (Left Side, Right Side, and Front Side) extending from the transition header at approx. EL. 67,650 mm up to the roof level at EL. 96,050 mm.
- The insulation work, refractory work, and installation of cladding sheets on all water walls (Left Side, Right Side, and Front Side), extending from the transition header at approx. EL. 67,650 mm to the roof level at EL. 96,050 mm, will be undertaken upon completion of the inspection and necessary rectification works.
- Removal & Transportation of scaffolding after completion of work.
- Arrangement of cuplock scaffolding materials like plane pipe, casting clamp, beam clamp and safety net will be in agency scope.
- The agency shall mobilize at site at least 25 days prior to the planned unit shutdown. Scaffolding erection for all three walls shall commence at least 20 days before shutdown and must be completed before the unit shutdown to ensure readiness for execution of the work.

10.20 BUCKSTAY AND WATER WALL PRESSURE PARTS INSPECTION & RECTIFICATION WORK

- Inspection shall be carried out for all 36 Buckstay components (12 Buckstays in each wall) covering the elevation range from EL. 67650 mm to Roof EL. 96050 mm. The inspection shall be conducted as per the checklist provided by BHEL.
- Repair/rectification work shall be carried out for up to 9 Buckstays. Any repair work beyond 9 Buckstays shall be paid as per BOQ (annexure III) on a pro-rata basis.
- Inspection of Water Wall Pressure Parts, specifically panel tubes adjacent to fin crack areas, shall be carried out. The agency shall provide necessary access arrangements and manpower to assist in the inspection of both Buckstays and pressure parts.
- Fin cracks have been reported in Water Walls, and fin welding up to 100 running meters is included in the scope. Any fin welding beyond 100 running meters shall be paid on a pro-rata basis as per BOQ (Annexure-A) items. Further, 20% of the total executed fin welding length (in running meters) shall be subjected to DP (Dye Penetrant) testing.
- The visual inspection of Water Wall pressure parts, Buckstay locking, and execution of minor repair, welding, and attachment works.
- The scope includes area cleaning, removal of insulation/sheet scrap, and transportation of the same to the designated plant disposal area.

10.30 REPLACEMENT OF WATER WALL PANELS

- After water wall inspection of all three walls. Identified water wall panels will be removed and replaced with new one.
- The 100 welding joints will be in mandatory scope. Beyond 100 joints will be paid as per BOQ (annexure III) on a pro-rata basis.



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3.	Assistance in rectification of soot blower in super heater zone.
4.	Pre-heating of tube surface prior to welding shall be carried out as per WPS requirements.
5.	Stress Relieving (SR) / Post Weld Heat Treatment (PWHT) shall be carried out as per WPS requirements.
6.	Radiography test shall be carried out for all joints.
10.40	INSTALLATION OF NEW MTM PAD AND THERMOCOUPLES
1.	Installation of new MTM thermocouples (85 nos.) at identified Water Wall locations to monitor metal temperature during boiler operation, as per BHEL Manufacturing Unit (MU) approved drawings and guidelines.
2.	Installation of MTM weld pads on Water Wall tubes shall be carried out strictly as per approved WPS/PQR.
3.	Pre-heating of tube surface prior to welding shall be carried out as per WPS requirements.
4.	Stress Relieving (SR) / Post Weld Heat Treatment (PWHT) shall be carried out as per WPS requirements.
5.	Proper routing, clamping, termination, and protection of thermocouple leads up to junction box. Installation of Junction Box.
6.	Submission of installation report including location details, welding parameters, preheat & SR records, and test reports.
10.50	MISCELLANEOUS
1.	The contractor shall provide one (01) office attendant on a round-the-clock basis (24x7) for the entire duration of the contract, from commencement to completion of the work. The following office infrastructure shall be provided by the contractor free of cost for official use throughout the contract period: a) One (01) Laptop/Desktop Computer with latest configuration b) One (01) PSC (Print-Scan-Copy) multifunction printer c) Required computer stationery and printer cartridges d) Reliable internet connectivity with modem/router e) Office table & chair for BHEL staff as per requirement
2.	Arrangement of manpower for To & Fro Transportation of Materials & Equipment from RSC-Varanasi or other site as required.
3.	The agency shall arrange for one (01) furnished residential quarter for the purpose of operating a running mess for BHEL staff. The quarter shall be in habitable condition and equipped with basic furniture and utilities and mess facilities.
4.	Vendor has to provide necessary supporting documents along with bill against these miscellaneous services and payment shall be released only after verification of these documents by site Engineer.
	GENERAL DETAILS REGARDING THE SCOPE OF WORK
1.	These are the general details of the work and it is not the intent to specify herein all details of work. Any item related to this work not covered, but necessary to complete the specified work will be deemed to have been included in the scope of the work.
2.	All the work shall be carried out as per instructions of BHEL engineer. BHEL engineer's decision regarding the correctness of the work and method of working shall be final and binding on the contractor.
3.	Contractor shall ensure that his premises are always kept clean and tidy to the extent possible. Any untidiness noted on the part of the contractor shall be brought to the attention of the contractor's site representative who shall take immediate action to clean the surroundings to the satisfaction of the Engineer-in- Charge.
4.	A minimum of two (02) qualified Safety Officers shall be deployed at the site to ensure round-the-clock vigilance (1 in each shift) and compliance with all safety norms and statutory requirements.
5.	The agency shall deploy a minimum of two (2) qualified Quality Engineers on a round-the-clock (24x7) basis to ensure continuous monitoring and strict adherence to quality standards throughout the execution of the work. These engineers shall be responsible for verifying compliance with applicable specifications, codes, and quality procedures.



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	OPTIONAL SCOPE OF WORK	
20.10	PROVIDING VEHICLE FOR SITE USAGE	
	Vehicle Scope of Work and Terms and Conditions	
A.	SCOPE: Providing One Vehicle exclusively for BHEL Staff use at, NTPC, Gadawara, in connection with "INSPECTION/RECTIFICATION OF BUCKSTAY AND REPLACEMENT OF WATER WALL PRESSURE PART AND OTHER MISCELLANEOUS WORK AT UNIT NO.2 BOILER OF 2X800 MW NTPC GADARWARA" for start of work till completion of work (Tentatively 70 Vehicle days).	
B.	Payment: Payment for providing the vehicle shall be done as per actual usage of vehicle days including running charges, OT & Night Charges after completion of work and as per following rate and Terms & conditions detailed as below.	
C.	Schedule of Rates and Prices for (4+1-Seater) Dzire/Indigo/SUV or (6+1-Seater) Bolero/ Scorpio or any equivalent type of Vehicle	
1.	Type of Vehicle	(4+1-Seater) Dzire/Indigo/SUV or (6+1-Seater) Bolero/ Scorpio or any equivalent type of Vehicle
2.	Daily Hire charges Rate for 12 hours duty	Rs. 991/- per day
3.	Running charges	Cost of 1 litre fuel for every 10 Km running
4.	Overtime charges per hour (after 12 hours duty)	Rs. 54/- per hour
5.	Night Charges per night for stay beyond 11 PM ** Overtime and night cannot be clubbed together night shall only be paid when vehicle is used away from site due to any reason.	Rs. 294/- per night
D.	Terms and Conditions: As per annexure V	
	SPECIAL TERMS AND CONDITIONS	
1.	Crane/ Hydra of required capacity if required, shall be arranged and provided by the agency at his own cost as per BHEL site in charge instruction.	
2.	The agency has to obtain other statutory clearances and permissions from concerned authorities as required for the work and they must observe and strictly adhere to all labour & industrial laws, safety rules and other statutory laws, acts & regulations as applicable for the contract.	
3.	The agency has to provide all required, all skilled & semi-skilled labours & technicians, experienced engineers & supervisors, qualified crane operators, qualified personnel for DPT, UT, Radiography, Heat Treatment, SR, D-Metering and other tests and other Manpower as per site requirement. Note: The agency has to provide the police verification certificate & Medical fitness certificate of all the staff/workers deployed by him at site for the subject work before start of work.	
4.	Proper Arrangement of House Keeping, strict compliance of Health Safety & Environment norms of BHEL, Day to Day cleaning of the entire working area and final area cleaning on completion of work including arrangement of water washing equipment and accessories is included in the Scope of Work of the Subcontractor	
5.	The sub-contractor shall carry out Dismantling, Removal, shifting of any obstructing structures, pipelines, cables & cable trays, trench pipes, trenches, equipment, facilities etc. as required including restoration of the same on completion of work. Any rerouting of pipelines, cables and cable trays, trench pipes, trenches, equipment facilities etc, if required, shall be carried out by subcontractor free of cost.	
6.	All Necessary Preparation, Development, Barricading and Marking of the Area has to be made by the subcontractor for Storage, Fabrication, and Pre-Assembly & Erection of the Materials.	
7.	Erection of scaffolding as per requirement and subsequent dismantling after completion of work shall be in Agency Scope. However, in addition to above in the interest of work the agency has to carry out, Erection of Scaffolding, Platforms, Approaches as required and Dismantling of the same on completion of work as per site requirement.	

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8.	Transportation of dismantled components, scraps & debris generated and other materials removed to disposal yard/stores on day to day basis. After completion of work, cleaning & shifting of all type of scrap from site to scrap yard and Transportation balance/surplus materials to store.
9.	Erection of Temporary Structures as required and restoration of same after completion of work.
10.	Locking of structures/equipment and Dismantling of existing equipment, structures, flooring and other associated equipment & assemblies as required for successful completion of work.
11.	Dismantling of Temporary Structures erected without damaging it and its transportation to stores for use in next unit. The erection of platforms wherever required for approaching to the different types of instruments, pneumatic actuator and electrical actuator etc. shall be covered under the scope of work.
12.	Erection, Assembly, Alignment, Matching, Welding, Cutting, Grinding, Drilling, Connection, Testing and other associated works to be carried out in scope of agency of Materials supplied for subject work including any minor rectification, modification, adjustment, fabrication, matching, machining etc. of the supplied materials.
13.	DPT, UT, Radiography, SR & Heat Treatment of HP Joints, Critical welds & others as per BHEL norms.
14.	Any Modification, Dismantling, Assembly, Servicing and associated works in existing equipment, structures, assemblies, piping, supports, etc. as required for retrofitting of new materials.
15.	Hydraulic Test of Boiler and rectification of defects observed including replacement/re-erection/rectification of components as required limited to SOW.
16.	Testing and commissioning of system including installation of testing equipment, tapping points etc. and rectification of defects observed including replacement/re-erection/rectification of components as required for the subject work.
17.	Necessary assistance for other Tests of Equipment & Systems, Boiler Light Up and other pre-commissioning & commissioning activities and rectification of defects observed including replacement/re erection/rectification of components as required.
18.	Handing Over of the system to the customer after successful completion of work including Commissioning Trial Operations.
19.	All works are to be carried out as per drawings and as per instruction of BHEL Engineer and all necessary adjustments, setting, alignment, testing and other associated works shall be carried out as per drawings and as per instruction of BHEL Engineer.
20.	Electric power supply shall be provided free of cost at single point. Agency to make its own arrangement to use the same at work site by extending cable, extension switchboards with MCBs of required capacity
21.	The agency must maintain proper system of documentation for Quality, Safety, HSE and other aspects so as to fulfil the requirement of ISO, OHSAS, 5S, SA 8000 and other National/ International standards.
22.	The work shall be carried out in three shifts. Deployment of sufficient manpower shall be ensured by the agency. Timely completion & maintaining quality of work, round the clock including Sundays and Holidays.
23.	The agency shall mobilize at site at least 25 days prior to the scheduled unit shutdown. Such advance mobilization is required to facilitate completion of statutory permissions, gate pass formalities, and other pre-shutdown compliances. The agency shall also complete the erection of all required scaffolding before commencement of the unit shutdown to ensure timely execution of the planned works.
24.	Any other work not specifically mentioned in the above scope of work but required to be carried out for completion of above work shall be in the scope of agency.
25.	Penalty imposed on agency for Labour related payment as per NTPC/BHEL guidelines: a) Delay in disbursement of wage payment to resources after 7th of next month & b) Delay in deposition of Provident fund in PF account of resources after 15th of next month
26.	Penalty imposed on agency against violation of safety, health and environment as per NTPC /BHEL guidelines
27.	In case of contradiction between GSCC & Annexures, Conditions in Annexures will prevail & be final.



**BILL OF QUANTITY**

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ANNEXURE – III

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JOB: INSPECTION/RECTIFICATION OF BUCKSTAY AND REPLACEMENT OF WATER WALL PRESSURE PART AND OTHER MISCELLANEOUS WORK AT UNIT NO.2 BOILER OF 2X800 MW NTPC GADARWARA

SL. NO.	ITEM DESCRIPTION/AREA OF WORK	UNIT	QTY.	% ALLOTTED		% COMPLETED
				FOR UNITARY QTY.	FOR TOTAL QTY.	
10.00	MANDATORY SCOPE OF WORK					
10.10	Scaffolding work and insulation work					
A.	Scaffolding hiring, transportation, erection, and dismantling for carrying out work on the exterior of the furnace	LS	1	14.5	14.5	
B.	Removal of Cladding Sheets	SQM	1980	0.001767	3.5	
C.	Removal of Insulation wool on Water wall and Buckstays (Insulation Thk Total 330 MM (50X3, 60X3), 6 layers)	SQM	11880	0.002104	25.0	
D.	Application of Insulation Wool on Water wall and Backstays (Insulation Thk Total 330 MM (50X3, 60X3), 6 layers)	SQM	11880	0.002609	31.0	
E.	Application of Cladding	SQM	1980	0.002272	4.5	
F.	Application of Refractory (Remove and Apply)	MT	6	0.25	1.5	
10.20	Buckstay and water wall pressure parts inspection & rectification work	No.	9	0.777777	7.0	
10.30	Replacement of water wall panels					
A.	Replacement of Spool Vertical water wall panels: Length: 10 meters Number of tubes: 5 Nos. Material: T-22 (Alloy Steel) a) Side water wall panel Qty. 09 Nos. b) Front water wall Panel Qty. 01 Nos.	No.	10	0.50	5.0	
B.	Joints including Pre-Heating, Post-Heating/SR & RT/PAUT as per EWS	No.	100	0.045	4.5	
C.	Welding of fins	MT	100	0.005	0.5	
10.40	Installation of new MTM Pad and Thermocouples	No.	85	0.011764	1.0	
10.50	Miscellaneous	LS	1	2	2	
TOTAL					100 %	
20.00	OPTIONAL SCOPE OF WORK					
20.10	Providing vehicle for site usage	1 vehicle			As per actual (tentative 70 vehicle days per unit)	

Note:

1. For Lump sum rate at BOQ item no. 10.10 A, there will be no quantity variation shall be applicable. Price will remain fixed till completion of work irrespective variation in quantities/work. Quantity variation shall be applicable for the rest of BOQ items.



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1.0	JOB COMPLETION PERIOD
	Job Completion Period shall be of Forty (40) days from shutdown of unit to mechanical completion. However, erection of scaffolding work shall be start Twenty (20) days prior to shutdown of unit and shall be completed before shutdown of unit. However, the agency shall put all out efforts to reduce the Completion Schedule to the extent possible. Any unforeseen hold ups or execution of additional works affecting the Critical Path Activities shall be reviewed and evaluated by Site Engineer for determining Overall Job Completion Period. However, the job completion period may be reduced due to any emergent reasons or BHEL's commitment to customer or any other reasons and the agency shall have to complete the work in the reduced completion period as per instruction of BHEL Engineer by augmenting manpower & other resources and by use of improved techniques & methods as required without any extra cost to BHEL. Any additional quantity of work or optional works executed and any unforeseen hold-ups or unavoidable delay not attributable to the agency affecting the Critical Path Activities shall be reviewed and evaluated by BHEL Site Engineer for the purpose of determining Overall Job Completion Period. However, the agency must make all out efforts by augmenting manpower & other resources to meet the completion schedule.
2.0	EXECUTION OF WORK
	Work shall be carried out round the clock in 3 shifts of 8 Hours each with adequate Manpower & Resources in each shift and for all critical activities; workforce must be available during lunch hours & during shift changeover period to avoid any discontinuity in work.
3.0	COMMENCEMENT OF WORK
	The successful bidder must mobilize required manpower & resources at within 03 day on issue of LOI/Mobilization Notice /Telephonic Request for each part. Considering the requirement of statutory permission and other gate pass formalities, agency mobilized & report at site at least 07 days prior to the actual start of the work.
4.0	DEFECT LIABILITY PERIOD
	Defect liability period will be 3 months from the date of completion of work pertains to agency scope for attending to workmanship defects only, subject to workmanship defect is observed and intimated within the defect liability period. Minimum five (05) days' time will be provided for remobilization of site and shut down of required duration will be made available. In case the defect noticed during the defect liability period is not attended immediately whenever the opportunity is provided by the customer, BHEL reserves the right to get the defect attended by any other agency or through customer and recover the entire cost incurred with overhead at prevailing rate from the SD or any other claims of the contractor. Security Deposit of the contractor against this contract shall be released only after successful completion of defect liability period without any defect or successful rectification of all defects observed during the defect liability period whichever is later and on submission of receipt of tax deposited against final bill.
5.0	INSURANCE, PROVIDENT FUND & LABOUR LICENCE OF WORKMEN
	The agency is required to comply with all applicable labour laws and regulations including, but not limited to the following: a) The Factories Act, 1948 / The Shops & Establishment Act, 1948 (which ever applicable) b) The Maternity Benefit Act, 1961 c) The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act 1979 & Building and Other Construction Workers Welfare Cess Act, 1996 d) The Inter State Migrant Workmen (RECS) Act 1979 (if applicable) e) Contract Labour (R&A) Act-1970 f) Employees' Provident Fund & Misc. Provisions Act- 1952 h) Employees' Compensation Act, 1923 i) Payment of Gratuity Act, 1972



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	j) Minimum of Wages Act,1948 k) The Payment of Wages Act,1936 l) The Payment of Bonus Act,1965 The agency shall compulsorily take Insurance, for all personnel deployed and the insurance must be valid till defect liability period. The agency must have independent PF Registration no. and they must deposit the prescribed amount to the statutory authorities as per the relevant acts/rules. The agency should have valid labour license and they must obtain the labour license prior to commencement of work as per the relevant acts/rules.
6.0	GATE PASS & POLICE VERIFICATION OF PERSONNEL
	The agency shall arrange entry/exit gate pass for Manpower, Materials & Vehicles from concerned Security Agency of the Customer at their own cost as per the prescribed procedures of the customer. The agency must get the character & antecedents of all personnel deployed to site duly verified from the concerned Police.
7.0	FACILITIES AT SITE
	Suitable accommodation for agency personnel, if available, shall be provided by UPRVUNL on chargeable basis, the charges for which shall be payable directly by the agency. However, in case of non-availability, the same shall be arranged by agency on its own. Suitable Stores & Office for agency shall be provide by UPRVUNL as per the availability at site. However, in case of non-availability, the same shall be arranged by agency on its own cost, space for the same shall be provide at site. The agency shall have to provide, at his own cost, all necessary facilities to the personnel deployed like residential accommodation with proper sanitary facilities, transport, electricity, water, medical, food, safety equipment, personal protective equipment, first aid etc. as required under relevant statutory acts & rules. Adequate arrangement of illumination of working area including providing of flood lights, halogen lamps, 24 V Transformers etc.
8.0	MANPOWER
8.1	The agency has to deploy adequate nos. of Engineers, supervisors and skilled, semi-skilled & un-skilled manpower so as to complete the work in the specified completion period.
8.2	The agency shall ensure that no physically unfit/mentally unsound and under-aged person (below 18 years) are employed at any time and shall also maintain the requisite health records of the personnel deployed.
8.3	In addition to above, the agency must provide additional manpower as required at any stage of work for smooth execution & timely completion of work without any extra cost to BHEL. In case the agency fails to provide additional manpower as required, BHEL reserves the right to arrange additional manpower from other sources and recover the cost incurred with overhead at prevailing rate from the bills of the agency.
9.0	T&P, IMTES & CONSUMABLES:
9.1	Agency will have to provide all necessary T&Ps, IMTE's & Consumables in sufficient quantities for successful completion of works in schedule time. T&Ps & IMTEs used by the agency duly tested and test certificate from Govt. approved agency must be available at site. List of T&Ps, IMTE's & Consumables, Electrical Winch M/c (3T/ 5T), Pulley (3T/5T), Welding Generator, Welding Rectifier, Tube Bending M/c with dies. Tube Beveling Machine, Tube Cutting Machine, Chain Pulley Block (1T,2T,3T,5T,) Hook Choke, Slings, GQ4/AG4/AG5 Grinders, FE2 Grinders/Rotary cutter, AG7 Grinder, D-Meter, Heat treatment Equipment, Electrode Baking Oven, Portable oven, Gas Cutting set, Heating Set, TIG welding set, Arc welding Set, Vernier Caliper, DP Kit, DA & O2 Gas, Argon Gas, Material Handling T&Ps, Spanners-Ring/D/Slogging/Box (Up to 95 mm), General Purpose T&Ps, General Purpose MMDs, Sealing & Jointing, Anti seize and Rust Removal Compound, Cloth & Oil for cleaning, Welding Electrodes, Welding, Cutting & Grinding, Consumables, General Purpose Consumables etc. are to be arranged in sufficient quantity as per requirement. Entry Gate pass & test certificate of all IMTE'S and T&Ps must be submitted to the BHEL site office.



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9.2	Other T&P viz pliers, hammers & files etc. and consumables viz HSS/carbide rotary cutters, carbide tipped cutting tools, material handling T&Ps, Spanners, hacksaws, Measuring Tapes, Tri Square and other general purpose T&Ps/IMTEs, emery papers of various grades, buffing wheels, high speed rotary stones, grinding/cutting wheels, diamond grinding paste, hole tight, Rust removing sprays for removal of seized fasteners etc. are to be arranged in sufficient quantity as per requirement
9.3	All consumables like, Welding Electrodes & Filler Wires (BHEL approved only), D.A., Oxygen, Argon, Nitrogen and other Industrial Gases, DPT & MPI Consumables, Blue Paste, Diesel, Petrol, Kerosene, Acetone and other oil, Rust Remover Compound, Sealing & Jointing Compounds, Cloths, Emery Paper, Coir Rope, Paint and fasteners of size M12 & below all other types of Consumables etc. shall be arranged by the agency at their own cost.
9.4	DA, Oxygen, Argon, Liquid Nitrogen and all Industrial gases must be arranged from approved agencies only and their testing certificates must be submitted. Entry Gate pass of all consumables must be submitted to the site office.
9.5	In case the agency fails to provide such additional T&Ps, MMDs, Consumables & Other Materials as required, BHEL reserves the right to arrange additional T&Ps, MMDs, Consumables & Other Materials from any source and recover the cost incurred with overhead at prevailing rate from the bills of the agency.
9.6	All the Critical Material Handling T&Ps such as Chain Pulley Blocks, Pull & Lifts, Slings etc. and Electrical T&Ps such as Welding Machines, Grinders etc. should have valid Testing Certificates and the same must be checked & tested prior to their use at site. In the event of non-availability of the required T&Ps after start of the work, BHEL shall have the option to provide the T&Ps on chargeable basis subject to availability. In addition, a penalty of Rs. 1000/- per item shall also be levied on the agency.
9.7	All the Critical MMDs must be available with valid testing & calibration certificates at site. The agency shall submit the list of available MMDs along with their calibration certificate. In case of failure to submit the above details or in the event of non-availability of the required MMDs after start of the work, BHEL shall have the option to provide the calibrated MMDs on chargeable basis subject to availability. In addition, a penalty of Rs. 1000/- per item shall also be levied on the agency.
9.8	All the Consumables must be of the best quality and of approved brands only. Only BHEL approved Welding Electrodes & Filler Wires shall be used and their Test Certificates shall be submitted. DA, Oxygen, Argon and all Industrial gases must be arranged from approved agencies only and their testing certificates must be submitted.
9.9	In the event of non-availability of the required T&Ps during the dismantling work, BHEL shall have the option to provide the T&Ps on chargeable basis, on agency risk and cost. In addition, a penalty per item shall also be levied on the agency as per BHEL norms.
10.0	SUBMISSION OF DOCUMENTS
	The agency shall have to submit the list of Manpower, T&Ps, MMDs, Consumables & Other Materials before commencement of work and they shall also submit copies of Labour License, PF Registration Certification, Workmen Insurance, Gate Passes of Manpower & Materials and other statutory documents after mobilization at site. Agency has to submit quality Plan, Detail Welding Schedule and Day wise activity schedule before starting of job. During execution of the work, Daily Progress Reports and other required Documents shall have to be furnished by the agency.



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JOB:	INSPECTION/RECTIFICATION OF BUCKSTAY AND REPLACEMENT OF WATER WALL PRESSURE PART AND OTHER MISCELLANEOUS WORK AT UNIT NO.2 BOILER OF 2X800 MW NTPC GADARWARA
11.0	JOB PROGRESS & REVIEW
	Checking of all defects and submission of report to BHEL by the agency to be done as soon as the machine is opened to facilitate early action for rectification/replacement. Daily work planning, scheduling and reviewing of work will be done by the agency and agency representative must attend daily review meeting with BHEL every evening in the work control office and submit progress report on daily basis to BHEL. BHEL shall have the option of ensuring completion of the work in time by arranging additional resources and manpower at the risk & cost of the agency in case the job progress is not satisfactory.
12.0	MISCELLANEOUS
12.1	Agency shall depute their representative for necessary co-ordination, follow up and shifting/transportation of materials from and to work spot / workshop /stores etc. Day to day area cleaning and scrap removal & final area cleaning after completion of work to be done as directed by BHEL. Removal of insulation, refractory, cladding, paint as per site requirement is included in the scope. All jobs are to be carried out as per BHEL norms and all measurements/clearances etc. are to be set as per BHEL standards.
12.2	Transportation of Materials at Site including arrangement of truck/trailer and Hydra along with fuel and operator as required. Return of unutilized spares and other materials provided by the customer.
12.3	No idle labour/over-run/de-mobilization/mobilization charges shall be paid in the event of any stoppage of work or the completion period getting extended for any reason.
12.4	The successful bidder shall not sub – contract work in part or whole without the written permission of BHEL and the bidder is solely responsible to the work awarded to the bidder.
12.5	No interest shall be payable on Earnest Money Deposit, Security Deposit or any other claims. Terms of forfeiture of EMD & SD and Other Terms & Conditions shall be as per NIT.

**TERMS & CONDITIONS FOR VEHICLE USAGES AT SITE**

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ANNEXURE – V

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JOB:	INSPECTION/RECTIFICATION OF BUCKSTAY AND REPLACEMENT OF WATER WALL PRESSURE PART AND OTHER MISCELLANEOUS WORK AT UNIT NO.2 BOILER OF 2X800 MW NTPC GADARWARA
D.	Terms and Conditions:
1.	Type of Vehicle must be (6+1 Seater) Bolero/ Scorpio or any equivalent type of Vehicle and not older than 2022 Model with excellent running conditions or, Type of Vehicle must be (4+1 Seater) Dzire/Indigo/SUV or any equivalent type of Vehicle and not older than 2022 Model with excellent running conditions. BHEL shall inform as per manpower deployed.
2.	The vehicle should be in the name of bidder or should be duly authorized by the rightful owner for deployment under this contract.
3.	Distance and time shall be taken into the account from garage to garage. However, these will be limited to 10 km and half an hour each way for the payment of purpose.
4.	The above rates are inclusive of all charges towards driver, fuel, maintenance, lubricants, insurance and statutory taxes etc. No other charges shall be payable.
5.	Duty hours shall be 12 hours/day. Depending on the site condition vehicle can be retained at site throughout the night and continued next morning in which case overtime (OT) beyond 12 hours will be paid as per agreed rates.
6.	Night charges and overtime charges shall Not be paid concurrently beyond 11 pm.
7.	The vehicle shall be petrol/diesel driven and in excellent running condition. In case of break down alternate replacement vehicle shall have to be provided by the agency otherwise BHEL will arrange the vehicle at the risk and cost of the agency.
8.	For running charges, receipt of fuel shall be attached along with bill.
9.	The maintenance of vehicle shall be responsibility of agency. However, suitable breaks for maintenance of vehicle shall be given as per convenience of BHEL, during this agency shall provide alternate vehicle.
10.	All expenses towards state taxes/road tax, passenger taxes, road permits, pollution control certificate, insurance, driver's license etc. shall be borne by the agency. No claim in this regard will be entertained by BHEL.
11.	Mobile Phone is compulsory for each driver who is on duty.
12.	All legal responsibility of the vehicle shall be of the agency. Photocopy of all statutory requirements i.e. pollution test certificate, challan, vehicle registration book, driving license, ownership documents etc. will have to be made available/submitted to BHEL by the agency.
13.	Toll tax and parking charges shall be paid by the agency which will be reimbursed to him by BHEL, as per actual, on submission of receipt.
14.	Vehicle shall be used at site as per requirement till completion of work, if work completed before the contract period BHEL reserves the right to terminate the contract.
15.	The vehicle may be required to be taken outside the power plant area whereby the same rates will be applicable.
16.	During contract, if there is any dispute then the decision taken by the legal advisor appointed by BHEL shall be binding on both parties.
17.	The meter reading shall be checked at random intervals to ensure its correctness.
18.	Driver engaged shall be courteous and well behaved. Safety of driver, his accommodation, food and other facilities for the driver have to be arranged by the agency.
19.	All bills shall be accompanied by vehicle log book, duly completed and signed by the users.
20.	No payments shall be made for the unsigned mileage reflected in the log book.
21.	Payment shall be made after completion of work on receipt of bills and duly verified by BHEL engineer in-charge by electronic transfer to the account in the bank identified by the agency.
22.	Signed no due certificate from the owner of the vehicle along with signed wage sheet payment of drivers should be enclosed along with the bill.