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TENDER SPECIFICATION

TENDER NO.- NDA/VARZOB-1/RMU/11_033

FOR

RENOVATION, MODERNIZATION AND UPRATING OF VARZOB HYDRO
POWER PLANT-1 (2 X 3.76MW), TAJIKISTAN

PART I – TECHNICAL BID



Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Power Sector – Northren Region,

Plot No. 25 , Sector - 16A ,

Distt. Gautam Budh Nagar, NOIDA – 201 301.INDIA



ISO 9001-2000, ISO 14001
and OHSAS 18001 certified
company
SubContract and Purchase
Deptt.

Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
Distt. Gautam Budh Nagar, NOIDA – 201 301.INDIA
Phone: 0091-0120-2515410 / 2515441 / 2515449
Fax 091-0120-2515438 / 2515467
Email: ssr@bhel.com / ssr@bhel.com

TENDER NO.- NDA/VARZOB-1/RMU/11_033

IMPORTANT NOTE

PURCHASER OF THIS TENDER DOCUMENT IS ADVISED TO CHECK AND ENSURE COMPLETION OF ALL PAGES OF TENDER DOCUMENT AND REPORT ANY DISCREPANCY TIMELY FOR CORRECTIVE ACTION, IF ANY, TO THE ISSUING AUTHORITY BEFORE THE BIDS ARE SUBMITTED. ORIGINAL COPY OF TENDER DOCUMENT COMPLETE IN ALL RESPECTS MUST BE SUBMITTED BACK AS PART OF THE BID WITHOUT WHICH THE SAME IS LIABLE TO BE REJECTED BY BHEL.

THIS TENDER SPECIFICATION ISSUED TO:

M/s-----



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DOMESTIC NOTICE INVITING TENDER

LAST DATE OF SALE: 23.05.2011

LAST DATE OPENING: 23.05.2011

NIT NO. / NAME OF WORK
TENDER NO.- NDA/VARZOB-1/RMU/11_033
Sealed tender are invited from the contractors fulfilling qualifying requirements for “RENOVATION, MODERNIZATION AND UPRATING OF VARZOB HYDRO POWER PLANT-1 (2 X 3.76MW), TAJIKISTAN”

NOTE:

1. Purchase Preference will be given to CPSU as per Govt. Guidelines.
2. Please visit our website at www.bhel.com and www.bhelsnr.co.in for details of NIT including Qualifying requirement.
3. Tenders Not Accompanied with full Earnest Money Deposit of Rs.100000.00 By pay order or Demand Draft will not be considered. However, tenderers who have already deposited one time EMD of Rs.200000.00 with BHEL-PSNR OR 'One Time 'EMD' of Rs. 1,00,000/- with RSC, BHEL-PSNR, NOIDA are exempted from depositing EMD with this tender.

RSM/NOIDA



ISO 9001/14001/27001,
OHSAS18001 & SA8000

NOTICE INVITING TENDER

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
(भारत सरकार का उपक्रम)
Bharat Heavy Electricals Limited
(A Govt. of India Undertaken)
पावर सेक्टर-उत्तरी क्षेत्र, नोएडा
Power Sector - Northern Region, NOIDA

To
M/s

BY REGISTERED POST/COURIER/HAND
Ref. No.: NDA/VARZOB-1/RMU/11_033

Date: 29/04/2011

Sub: RENOVATION, MODERNIZATION AND UPRATING OF VARZOB HYDRO POWER PLANT-1 (2 X 3.76MW), TAJIKISTAN

Dear sir,

1. Offers, are invited as per terms and conditions enclosed and GSCC (given as General and Special conditions for Services page www.bhelpsnr.co.in at Service Tender)
2. Offer should be sent in Separate envelopes for Techno-commercial and Price bids. Offerers distinctive identification (Company Name), tender no. NDA/VARZOB-1/RMU/11_033 due on 23/05/2011 'Techno-commercial' and 'price bid' should be mentioned clearly on cover of each envelope. In case it is holiday on 23/05/2011 the tenders will be opened on next working day.
3. Offer should be free from overwriting. Corrections and additions, if any should be attested . The rates should be quoted for scope as per Annexure A and in line with Annexure B&C Price quoted should be exclusive of SERVICE TAX and after considering CENVAT credit. The service tax, as legally leviable & payable by the contractor under the provisions of applicable law/act , shall be paid by BHEL as per contractor's bill. However, contractor shall have to submit proof of service tax deposited by them immediately after the deposit but not later than the next bill submitted after the due date of deposit. The contractor shall furnish proof of Service Tax registration with Central Excise Division covering the services covered under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by contractor on BHEL for this project.
4. The rates should be valid for a period of six months from the date of opening tender. The rates should be quoted both in figures and words. Please note that if there is mismatch between price given in figures and in words BHEL reserves its right to accept maximum of the two for evaluation, and minimum of the two for award and BHEL's decision in this regard should be acceptable to the party.
5. The offer should reach this office on or before 15:00 on 23/05/2011. The offer will be opened at 15:30 on same day (In case it is holiday on 23/05/2011 the tenders will be opened on next working day) in presence of such tenderers or their authorised representatives as may be present.
6. Earnest money of Rs. 1,00,000 is to be sent (in cash, Pay Order/ DD) along with the offer in favour of BHEL NOIDA . Adjustment of earnest money submitted with any earlier offer will not be considered.
However, bidders who have already deposited "One Time 'EMD'" of Rs. 1,00,000/- with SAS-Noida, BHEL-PSNR, or "One Time 'EMD'" of Rs. 2,00,000/- with SCT-Dept., PSNR, BHEL-NOIDA shall be exempted for the same against this tender.
7. The enclosed scope of work , details out the major activities only. However as per general maintenance requirement and site conditions certain related activities may have to be carried out without any extra cost.
- 8 BHEL reserves the right to process the tender on reverse auction basis and also the right to award the job to one or distribute the job among one or more contractors. In case it is not agreeable, the party need not quote.
- 9 It will be in interest of the contractor to visit site before submitting offer to have clear idea about the site conditions.

S. C. W.

Tender No. : NDA/VARZOB-1/RMU/11_033 Date : 29/04/2011 Due Date : 23/05/2011

- 10 Time period for completion of job will be 12 MONTHS from the date of commencement of work. However in case inputs for the critical path are not provided by BHEL in time, the completion period shall be extended for the period for which the inputs are not provided. Decision of BHEL in this regard shall be final. Penalty for delay will be AS PER Clause No.J.8 of special terms and conditions attached with scope of work of this tender.
- 11 Terms of Payment:- **Payment shall be made as per Clause No.J.1 of Special terms and conditions attached with scope of work of this tender.** The bills will be verified by BHEL site engineer and certified by BHEL Resident Engineer for arranging payment. The balance 10% shall be payable after successful completion of the job. All payments are subject to Income-tax deduction at source as per Central Government laws and compliance to all statutory requirements indicating in the NIT.
- All payments shall be made through E-payment system. Contractor has to give Bank name, Branch & Account number alongwith the bills as these shall be incorporated in the system.
- 12 BHEL reserves the right to reject a bidder based on their unsatisfactory past performance at any other project in any centre/region.
- 13 BHEL is not responsible for tenders/offers lost/delayed in transit/ by post etc. The offers reaching this office after due date and time and/or without earnest money as per item no. 6 above, will not be considered. The offer should also accompany all documents as per clause no. 1 of General And Special terms and conditions of contract.
- 14 The selected contractor will have to mobilise for the job with in 01 MONTH of the issue of the letter of intent/ work order/work instruction from RSC.
- 15 Offers not received in line with the tender enquiry are liable to be rejected
- 16 It is requested that only authorised representative of the tenders attend the tender opening. They should further be available on the same day for any further clarification in the matter, in the office of undersigned.
- 17 Successful tenderer will have to submit Security deposit as calculated below before start of work :

Order value	SD Amount (Rs)
Upto Rs 10 Lakh	10%
Above Rs 10 Lakhs and upto Rs 50 Lakhs	Rs 1 Lakh + 7.5% of the amount exceeding Rs 10 Lakhs
Above Rs 50 Lakhs	Rs 4 Lakh + 5 % of the amount exceeding Rs 50 Lakhs

- 18 The contractor has to ensure that the staff/ workmen deployed for execution of work uses necessary safety appliances. Surprise checks shall be done by BHEL and in case of non-compliance of above penalty of RS 500/= (five hundred) may be imposed for each case on each occasion of surprise check.
- 19 Contractor shall ensure use of only calibrated Inspection, Measuring & Testing equipment confirming traceability to national standards. Valid calibration certificates shall accompany these IMTEs.
- 20 "Code for Safety Management at Services Sites" as detailed in letter no PSNR/RSC-NOIDA/SAFETY dtd 24/12/2001 will have to be accepted by the party for qualifying in Techno-Commercial bid.
- 21 The contractor shall ensure compliance to all statutory requirements including but not limited to EPF deposition, Labour Licence, Insurance under applicable WC act & ESI failing which shall be liable for penal action as deemed by relevant act.
- 22 May see "General & Special conditions of contract(GSCC)- for Services jobs" on web page www.bhelpsnr.co.in at Service Tender.
- 23 All payments shall be made through E-payment system. Contractor has to give Bank name, Branch & Account number alongwith the bills as these shall be incorporated in the system.
- 24 Tentative date for start of work is 23/06/2011. However the date may change based on shutdown given by customer and this shall not entail the party to revise their price or any other condition of their offer. This factor may be kept in view while quoting.
- 25 PRICE BID OF ONLY THOSE PARTIES WILL BE OPENED WHO QUALIFY IN TECHNO-COMMERCIAL BID.

Encl.

1. Scope of work - Annexure D
2. Schedule of rates - Annexure B & C
3. Qualifying Criteria for bidder-A

Thanking you,


Yours truly,
Regional Service Manager(Noida)

TECHNICO-COMMERCIAL BID FOR :

Tender NDA/VARZOB-1/RMU/11_033 dated 29/04/2011

Sub: RENOVATION, MODERNIZATION AND UPRATING OF VARZOB HYDRO POWER PLANT-1
(2 X 3.76MW), TAJIKISTAN

NAME & ADDRESS	:	
PAN NO.	:	
Provident Fund	:	
OFFER NO	:	
EMD	:	
VALIDITY OF OFFER	:	6 Months
COMPLETION PERIOD	:	12 MONTHS
MOBILISATION PERIOD	:	01 MONTH
GUARANTEE PERIOD	:	12 Months

Following are enclosed/ certified/accepted as part of Technical bid.

- Signed copy of NIT along with scope of work. Technical bid (annex. B) and Price bid (annex. C) are enclosed.
- Code for Safety Management at Services Sites as detailed in letter no PSNR/RSC-NOIDA/SAFETY dtd 24/12/2001 safe work practices issued by PSNR are accepted.
- Even though offer has been given for a particular unit, it is valid for any Unit of same rating in the same PowerHouse, provided there is no change in activities listed in scope of work.
- Activity- wise percentage breakup has been indicated against each activity in the scope of work as per Annexure – 'A'. In case of reduction in quantum of work at site, payment shall be released only for the activities actually carried out as per the percentage allotted
- All documents as required in "DOCUMENTS TO BE ATTACHED WITH BILLS" given in web page www.bhelpsnr.co.in "Service Tender" of BHEL PSNR shall be submitted along with bills.
- Use of all necessary safety appliances by all the staff/ workmen deployed for execution of work will be ensured. If during surprise checks done by BHEL any non-compliance is observed penalty of RS 500/= (five hundred) may be imposed for each case on each occasion of surprise check.
- It is certified that all statutory requirements including but not limited to payment of wages, deposition EPF, Labour Licence, Insurance etc governed by the provisions of applicable acts shall be our liability without any extra cost to BHEL. Further without limiting obligations and liabilities provided elsewhere in the contract, BHEL shall be kept harmless and indemnified against all claims, damages and compensations, as well as breach of such requirements. Release of progressive payments shall be subject to, inter alia, compliance to such statutory requirements.
- If there is mismatch between price given in figures and in words BHEL shall have right to accept maximum of the two for evaluation, and minimum of the two for award.
- There are no deviations from the NIT and all Terms & Conditions of NIT including those given in " General & Special conditions of contract(GSCC)- for Services jobs" on the web page www.bhelpsnr.co.in of BHEL PSNR are accepted.

Sign of contractor: _____

Date:

Seal

Annexure-A

QUALIFYING CRITERIA

NIT No. NDA/VARZOB-1/RMU/11_033

RENOVATION, MODERNIZATION AND UPRATING OF VARZOB HYDRO POWER PLANT-1 (2 X 3.76MW), TAJIKISTAN

(Only Indian Bidders need to apply)

WORK EXPERIENCE:

- (i) Tenderers who wish to participate should have executed following works during seven years;
- (A) "Erection , testing & commissioning work of at least one vertical hydro turbine generator set of 2MW or higher"
- (B) Minor Infrastructure civil works of power plant/sub station.

OR

"Should be executing works of similar nature, as covered in this tender, against direct BHEL's order or to the Order of any utility in government sector for a VERTICAL HYDRO TURBINE GENERATOR SET OF 2MW or above rating."

(ii) Tenderer should also have an average annual turnover of minimum of USD 0.34 Millions 'OR' INR 15 Millions during preceding three years (2007-08, 2008-09, 2009-10). Bidder shall submit audited balance sheet and profit & loss account in support of this.

SUB CONTRACTOR'S SCOPE OF WORK**Sub.: Scope of work 'Renovation, Modernisation & Up rating' of Varzob HEP, Tajikistan (2X3.67 MW)**

Note: Scope of work is for both units and Job Completion period for both units is 12 Months.
(Final commissioning of Unit 1 in 11th months and Unit 2 in 12th month)

Tajikistan, Varzob Project is located very close to the capital city of Dushanbe in Tajikistan (about 5 KM). Varzob Project comprises of a series of cascade development plan to harness the power potential of Varzob River. The scheme comprises of three projects namely Varzob-I, Varzob-II & Varzob-III with installed capacity of 7.34 MW, 14.4 MW and 3.2 MW respectively. The first project in the series is Varzob-I. The Power house has two vertical Francis Turbines of 3.67 MW rated capacity each. These machines of Russian design were installed in late 1930s and have been in operation since then. The turbines are of LMZ make and the Generators of Electrosila Make.

Varzob-I project comprises of a diversion structure across the river Varzob, a head regulator de-silting arrangement, intake structure, power channel of about 7.1 Km long, for-bay structure, penstock intake, power house and a small tailrace.

It will be in the interest of vendor to visit the site before quoting. This RMU of Varzob-I project is a prestigious job and the completion schedule will be monitored by Govt. of India & Tajikistan.

Sl. No.	DESCRIPTION OF ACTIVITY	% ALLOCATION	
		Unit-1	Unit-2
A	Maintenance of Store	2.0%	2.0%
B	Dismantling of complete unit no.1 & 2 including removal of static & Rotating components, MIV, Auxiliaries i.e. Generator Rotor, Turbine, DT cones, Stay Ring & Spiral Casing etc. Dismantling of old Governing System & Excitation System.	7.0%	7.0%
C	Erection & commissioning of complete new Turbine, MIV, Spiral Casing & its auxiliaries as per technical requirements.	9.0%	9.0%
D	Erection & commissioning of complete new Generator & its auxiliaries as per technical requirements.	5.0%	5.0%
E	Final assembly & box up of complete units.	8.0%	8.0%
F	Installation & Commissioning of following control panels / operating system completely. This includes separate dedicated earthing of control panels, mounting of cable trays, cable laying (Power cables, Control cables & Instrumentation cables) and their dressing, clamping, ferrulling, crmping, lugging, termination as per control schematic.	10.0%	10.0%
G	Erection & commissioning of all Field Instruments & BOI items.	2.0%	2.0%
H	Pre-commissioning /commissioning of unit.	5.0%	5.0%
I	Any other work including civil works required to be completed for erection & commissioning of unit like: Turbine, Generator, Control Panels, Transformers, Cable trenches, Earthing Pit etc.	2.0%	2.0%
	Total (Unit 1+Unit 2=100%)	50.0%	50.0%

A Maintenance of Store			
A.1	Deployment of store keeper , helpers & security staff at store.	2.0%	2.0%
A.2	Receiving the material dispatched from BHEL units/other vendors for R, M & U of the plant. Keeping proper record.		
A.3	Loading & Un-loading of materials in store. Stacking the material in proper way with marking & traceability.		
A.4	Issuing of material & shifting of the same to & fro between main store, open yard store and the power house. Main store of Barki tojik is 20Km from Power house and open yard store is in switch yard area of same power house.		
A.5	Handing over the balance of material to CUSTOMER (OPEN STOCK HOLDING COMPANY - BARKI TOJIK) after material-reconciliation with OSHC-Barik Tojik & BHEL along with total records of the stores.		
B Dismantling of complete Units			
B.1	Dismantling of complete Turbine & Generator of Unit no.1 & 2 including removal of all "Static & Rotating" components, complete MIV system, all auxiliaries system like: HP air compressure system, OPU system, Oil tank, cooling water system, Drainage & Dewatering system etc. Fabrication of a platform and stands in the generator stator pit for facilitating the working on the generator stator for its dismantling. Shifting of dismantled materials/panels to srpyard/store for their proper placement.	7.0%	7.0%
B.2	Dismantling of existing control room panels including protection panels, UCB panels, old governing system, AVR system, starter panels, 110 V DC Battery charger, CO2 system, Fire fighting system, illumination system, Air conditioning system, UAT & Junction boxes etc. along with existing power cables, control cables & instrumentation cables including their accessories like: cable trays etc. Shifting of dismantled materials/panels to srpyard/store for their proper placement. Any other equipment which are not covered in above major components are also to be dismantled.		

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C	Erection & commissioning of complete new Turbine, MIV, Spiral Casing & its auxiliaries as per technical requirements.	
C.1	<p>DT CONES: Installation of DT Cones. Alignment of DT Cones. Matching of Cone with DT Liner. Fastening of cones and assembly of DT Liner. Welding of Anchor Plates. Positioning and welding of pipelines with DT Cones. Assembly of Lower Pit Liner of DT Cones. Protective Painting to components as per the requirement.</p>	
C.2	<p>STAY RING: Laying out of foundations. Identification of x, y axis and D/S line markings. Installation of Stay Ring sections as per marked axis. Seal welding of joints as per drawing. Tightness of flange joints. Alignment and Leveling of staying as per drawing. Locking of joint bolts and nuts.</p>	
C.3	<p>SPIRAL CASING: Identification of Centerline mark on the members of Spiral Casing. Edge preparation and Matching of the spiral casing members with top and bottom deck of Stay Ring. Centre line marked on the spiral members with reference to centerline of Stay Ring. Dimension 'R' for each member, ('R' is the distance from centre of Stay Ring to farthest point of member). Distance of Spiral inlet from unit centerline and check with reference to existing penstock centerline. Welding and NDT requirements as per drg. Welding of plugs sockets & other items, excluding air vent holes.</p>	
C.4	<p>Hydraulic testing of spiral casing to technical requirements. Alignment of stay ring and spiral casing after hydraulic pressure testing. Locking of holding down bolts, packers, wedges & jacking bolts. Installation of embedded pipes including pressure gauge tapping. Painting of water path surface to requirements. Alignment of stay ring and spiral casing before handing over for concreting. Also check and compare the matching lines of existing penstock and spiral inlet axis. Alignment of stay ring and spiral casing after concreting. Two coat of Epoxy painting and one coat of primer of spiral casing & under water parts. Epoxy paints & primer shall be supplied by subcontractor.</p>	
C.5	Welding of Anchor Plates of Pit Liner.	
C.6	<p>MIV: Assembly of MIV in a way to keep the centerline of MIV inline with that of Penstock & Spiral inlet. Tightening of flanges of two halves. Seal welding of body halves with specified electrodes followed by DP Test of Root run. Assembly of Outlet pipes with Dismantling Joint. Tightening of outlet pipe with inlet pipe of spiral casing. Locking of all fasteners. Installation of inlet pipe between MIV and penstock as per drawing followed by Welding of inlet pipe with penstock. Painting of internal & external surfaces as specified. Installation of by pass valve and air release cum vacuum breaking valve and other C&I items as per drawing. Assembly of Servomotor. Installation of Power Pack Unit. Assembly of all components and seals/rubber cords as required. DPT of site welds wherever carried out. Hydraulic Testing of all Water & Oil Pipe lines at specified pressure as per drawing.</p>	9.0% 9.0%
C.7	Attending to the general purpose cleaning & maintenance of various dismantled components of the machine viz. thrust/ guide bearing; TGB; Brake/ Jack assembly; PMG, Slip ring assembly, etc.	

AdA

C.8	Replacement of runner with new ones & Re-assembly of new turbine runner & shaft, Assembly of new top liner & lower liner plates, Assembly of top cover & installation of top cover drainage pump along with level electrodes, Assembly of bottom bracket, Assembly of new top & bottom labyrinths, new shaft sealing, and new runner coupling bolts. Replace turbine/ generator shaft coupling bolts, shaft sleeve, bypass valve, generator rotor assembly, etc.	
C.9	Checking and confirming the soundness/suitability of all the new as well existing components which are being installed. Rectification of the same as per requirement.	
C.10	DP & UT of turbine guide bearing, Upper guide bearing & Lower guide bearing. Polishing & blue matching of all the bearings with respect their respective journal.	
C.11	Through cleaning of stator air coolers, and all bearing coolers and their hydraulic testing. Replacement of neoprene rubber gaskets in the coolers. Assembly of new turbine guide bearing coolers.	
C.12	Installation of new cooling water system (Pump + Turbine portion piping), Air compressor & Drainage pumps.	

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D	Erection & commissioning of complete new Generator & its auxiliaries as per technical requirements.	
D.1	Inspection & testing of sole plate, grouting & stator foundation bolts.	5% 5%
D.2	Placing /Mounting of new single piece assembled generator stator to its position in pit .	
D.3	Tightness of all fasteners' and foundation bolts and dowel pins. Dowel pin material, machining of dowel pins & making of holes for dowel in the stator frame are to be done by sub contractor.	
D.4	Conducting dry-out of the stator winding using DC welding transformer or through Rectifier and final A/C high voltage test on generator at site as per BHEL standard technical norms. During dry out complete covering of the stator is to be done by sub contractor.	
D.5	Measurement of stator winding resistance using micro-ohmmeter. Instrument-Micro ohm meter will be provided by BHEL.	
D.6	Spray painting of the overhang portions of the stator winding at the connection as well as the non-connection end by Epoxy Red Insulation paint.	
D.7	Hydraulic Testing and Assembly of all Stator Air Coolers along with associated pipelines.	
D.8	<p>Assembly of Generator Rotor: In case the manufacturer has not punched the pole weight on poles, poles should be weighed. Poles with approximate equal weights should be assembled on opposite location as far as possible. Dimensions and fitting of the pole keys and stoppers. Checking & ensuring the healthiness of rotor spider and its soundness. DP testing of the weld joints of the rotor spider.</p>	
D.9	Mounting of wound poles on rim and check the resistance and impedance of each pole before interconnection. Fitting of Pole Keys and Stoppers.	
D.10	DC Resistance of poles and Rotor winding. IR of individual poles before mounting. IR and HV of poles after mounting but before interconnection.	
D.11	Measurement of Rotor resistance and impedance.	
D.12	Measurement of impedance of individual pole coil before mounting on rotor body and also during assembled condition of rotor poles on rotor body.	
D.13	Carrying out the dry out of the rotor assembly.	
D.14	IR value and H.V. testing of rotor winding after dry-out and before lowering. Insulation Resistance & H.V. test of current carrying leads. Insulation Resistance & H.V. test on Slip rings.	
D.15	Measurement of rotor winding resistance using micro-ohmmeter.	
D.16	Spray painting of the complete rotor pole assembly by suitable Insulation paint.	

Ally

E	Final assembly & box up of complete units.		
E.1	Pressure testing of complete new brake jack system. Replacement of Rubber Seal & Gaskets, if found damaged.		
E.2	Assembly of new Discharge Ring in position and checking the level of stationary labyrinth.		
E.3	Assembly of Guide apparatus.		
E.4	Assembly of regulating ring along with connecting rods.		
E.5	Positioning and installing of servo motor and checking its stroke.		
E.6	Coupling of turbine shaft and the runner assembly in service bay. Lowering of turbine shaft & runner assembly in position.		
E.7	Lowering of generator shaft.		
E.8	Assembly of thrust collar and mirror disc assembly along with associated pipelines.		
E.9	Lowering of generator rotor and assembling with shaft.		
E.10	Lowering of upper bracket and checking its level.		
E.11	Assembly of HS Lub System. Assembly of Thrust Bearing Pads.		
E.12	Assembly of Braking & Jacking System.		
E.13	Assembly of oil bath upper guide bearing.		
E.14	Checking the rotation level of generator shaft and correcting the same.		
E.15	Coupling the generator and turbine components viz. guide vanes servo motor, guide vane levers and links mechanism.		
E.16	Adjusting guide vanes top, bottom and vertical clearances as per the requirement of the drawing.		
E.17	Preparation of alignment and positioning of new LGB Guide pads.		
E.18	Carrying out the alignment by combined rotating of turbine & generator shaft.		
E.19	Checking & correction of shaft run out (Alignment & Leveling) at various points.	8.0%	8.0%
E.20	Centering of the unit rotating parts.		
E.21	Re-checking the leveling of the machine and carry out the load sharing of thrust pads.		
E.22	Centering of the shaft and setting of bearing clearances of UGB, LGB, TGB pads.		
E.23	Measurement of top as well as bottom stator & rotor air gaps.		
E.24	Measurement & plotting of stator and rotor forms.		
E.25	Charging of new governing system.		
E.26	Installation of all new RTDs & TSDs in UGB, LGB, TGB pads. Assembly of generator top casing light & dome light.		
E.27	Boxing up of all bearings including fixing up of oil & water pipe lines.		
E.28	Assembly of new turbine shaft sealing system.		
E.29	Assembly of runner cone with runner.		
E.30	Assembly of grease pipe lines & oil bath. Copper tubes for greasing of guide vanes shall be arranged by sub-contractor.		
E.31	Installation of lower air buffers, upper air buffers, cover plates, bushes & rocker assembly.		
E.32	Assembly of Rotor fans.		
E.33	Complete assembly of the machine.		
E.34	Checking & testing of all valves, pipes for proper functioning and leakages.		
E.35	Measurement of IR value of stator & rotor winding.		
E.36	Boxing up of the unit by assembly of all the dismantled components.		
E.37	Cooling Water Pipelines erection and commissioning.		

Sign

F	Installation & Commissioning of following control panels / operating system completely. This includes separate dedicated earthing of control panels, mounting of cable trays, cable laying (Power cables, Control cables & Instrumentation cables) and their dressing, clamping, ferrulling, crimping, lugging, termination as per control schematic.		
F.1	Max Control Panels in Control Room for control & monitoring system, HMI system, 110 V DC and 24 V DC Battery system comprising their Battery Banks, Battery Chargers and DCDBs in control room.		
F.2	Protection System in control room. This shall include Protection Panel (GRP) for Generator, GT & UAT (one set comprising of two panels), Common Evaluation Unit, 35 KV Relay Line panel for 4 no. lines.		
F.3	UCB panels of Max Control. This includes Gauge Panel, Temperature Panel, Common Control Panel.		
F.4	New Max control EHG Panel & HMC panel of governing system. Mounting of Toothed Wheel & Magnetic Pick-up, Hydraulic Over Speed device, LVDT for feedback, pulleys for mechanical feedback system etc.		
F.5	New DVR system (Excitation system), Excitation transformer, LAVT panel.		
F.6	Complete MIV system.		
F.7	HP air compressor system.		
F.8	OPU system & Oil tank (Sump tank) for governing system and oil pressure vessel.		
F.9	Cooling water system for Turbine & Generator bearings.		
F.10	Centrilised Greasing system for guidevanes & regulating ring.	10.0%	10.0%
F.11	CO2 system		
F.12	Fire Fighting system		
F.13	Illumination system		
F.14	Air conditioning system for control panels.		
F.15	Mounting of junction boxes.		
F.16	Unit Aux. transformers. Making the platform for installation of Aux. Transformer. Installation & commissioning of Aux. Transformer (250 KVA, 6.6 KV/0.4 KV, 3 Phase Dry Type) along with its auxiliaries & its cable laying/termination.		
F.17	Installation of oil filled station transformer and cables.		
F.18	Installation of new LT breakers.		
F.19	Erection & Commissioning of all BOI items. NG Cubicle, 6.6 KV Power Cable, 1.1 KV LT Power Cable, Instrumentation Cables, 400 V LTAC Distribution Board, Starter Panel for Turbine & Generator auxiliaries & Illumination System.		
F.20	During installation of control panels / system, certain material like: angle iron or channel etc. shall be supplied by Sub-contractor, if required in order to complete the work. Minor civil works shall also be carried out by Sub-contractor for installation of control panels/systems.		

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G	Erection & commissioning of field instruments & BOI items.		
G.1	Installation of field instruments & switchgears required for Generator transformer as well as for unit operation.	2.0%	2.0%
G.2	INSTRUMENTATION (MIV): Installation of MIV Hydraulic Control Panel, MIV Electrical Panel, Installation of all pressure gauges, pressure switches and all HR/LR Control cables as specified in Drawing.		
G.3	INSTRUMENTATION (TURBINE & AUX.): Installation of Pressure Gauges, pressure Switches, Pressure Transmitters, Electrical Transducers, Temperature Scanners, Turbine Junction Box, Forebay & Tail Water Level measuring equipment along with Gauge Well, Piping's , Turbine Discharge measuring Equipment, Float Type Level Switches for Drainage system and Float Type Level Switches for Dewatering System as specified in Drawing. Checking & testing of CT/PT system as per drawing.		
G.4	Erection & commissioning of EPABX SYSTEM along with PERSONAL COMPUTER SYSTEM.		
G.5	Laying of power, control, screen & signal cables for the Unit. Glanding, tagging, dressing, clamping, ferruling & terminations of laid cables.		
G.6	Installation of all new RTDs & TSDs in UGB, LGB, TGB pads. Assembly of generator top casing light & dome light.		
H	Pre-commissioning / commissioning of Unit.		
H.1	Assistance in Pre-commissioning & commissioning of new control systems /panels including protection system.	5%	5%
H.2	Assistance in pre-commissioning of associated aux. systems of Turbine & Generator.		
H.3	Assistance in pre-commissioning of control panels, station transformer, UAT, protection panels, Governing & Excitation panels.		
H.4	Assistance in Pre-commissioning of new CO2 system, Fire fighting system, illumination system, HP Air compressure system, CGL system, Air conditioning system, CGL system, Cooling water system, OPU system.		
H.5	Assistance in carrying out the pre-commissioning checks of turbine & generator.		
H.6	Spinning of the unit and carrying out the dry out of the unit by short circuit run method.		
H.7	Assistance in carrying out the O.C.C. & S.C.C of generator during operating condition of unit.		
H.8	Synchronisation and loading of the unit.		
H.9	Assistance in carrying out the vibration analysis at various points in the shaft in all modes of unit operation i.e., mechanical run, in excited state & at different loads and balancing of the unit, if required.		
H.10	Any other work, not mention above but required for completion of job shall be carried out by sub-contractor.		
H.11	Sub-contractor has to provide 4 nos. EX. BHEL Persons from Mechanical/ Electrical area at different interval of time according to site requirement. (Minimum 720 man days).		

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I	Any other work including civil works required to be completed for erection & commissioning of unit like: Turbine, Generator, Control Panels, Transformers, Cable trenches, Earthing Pit etc.		
I.1	Civil works shall include making earthing Pit 1.5Mx1.5Mx3.350M Deep (4 Nos) along with the material (i.e. copper plate 1200mmx1200mmx12mm (4 nos), GI plate, clamps, GI strips etc as per bill of material) re-grouting of all kind of panels, Breaking of existing wall approx 6.36 M(wide) & 5.8 M(wide) for aux transformer at Turbine floor level, increasing of door width, removal / breaking of old civil construction for fixing of new equipment, new trenches are to be made of size 0.5M (W)x 0.80M (D)x 5.0M (L) and 1.5M(W)x1.0M(D)x14.0M(L) and connection with old trenches. Any other trench wherever required to be made at the time of erection will also be covered in the scope of subcontractor.	2%	2%
J.	Special Terms & Conditions.		
J.1	TERMS OF PAYMENT:		
a)	90 (Ninety) % of the contract value along with corresponding service tax as Monthly Progressive Payments on pro rata basis (as per percentage break-up given in the scope of work) for actual completed work.		
b)	10 (Ten) % of the contract value along with corresponding service tax as Mile Stone Payments on pro rata basis (as per percentage break up) for actual completed work. Above payments shall be released after adjustment of CV based on the actual work carried out.		
c)	Security Deposit shall be released only on completion of warranty period of 12 Months and fulfillment of all contractual obligations.		
d)	All payments shall be subject to statutory deduction as per rule.		
e)	Necessary documents as specified in GSCC shall be submitted with bill.		
f)	All payment shall be made by Electronic Fund Transfer and necessary Bank Details shall be furnished by the sub-contractor.		
J.2	Subcontractor has to obtained license from local authorities to execute the work in Tajikistan, opening current account etc.		
J.3	The clauses of this special conditions of contract and the contents thereof are to be complied in all intent and purposes by the sub-contractor. Wherever called for, the financial implications shall be within quoted price.		
J.4	The word vendor/sub-contractor/contractor shall be used interchangeably throughout this documents implying, expressly or otherwise, the successful tenderer.		
J.5	The tenderers are advised to visit the site before quoting for their interest to know the extent of job and other implications and execute a declaration in the attached format enclosure-vi.		
J.6	The sub-contractor shall issue a confirmation towards non-disclosure of Information, Drawings and documents shared by BHEL in the prescribed format enclosure-V attached.		
J.7	All activities mentioned in above scope of work to be carried out by sub-contractor at site as per the guidance of BHEL engineer. Total Job completion time for each Unit shall be 11 Month. unit-1: 0- 11 month and unit-2: 1 to 12 month.		
J.8	OVERRUN COMPENSATION		
A	Over Run Compensation (ORC) is payable by way of rate revisions for periods beyond original contract period subject to the following terms and conditions.		

B	Rates shall be increased by 10% for the first twelve months of one or more extensions beyond original contract period. For the next twelve months of further extensions if any, rates shall be increased as above by 10% over the previous twelve months, and similarly for each subsequent twelve months extension.
C	The amount of increase payable per month due to rate revisions is subject to a minimum of INR 1,00,000/- per month and a maximum of INR 10,00,000/- per month.
D	Should there be any 'Time extension' for reasons attributable only to the contractor, then the work shall be executed by the contractor at the rates applicable for the period the work was planned
E	Payment of ORC shall be regulated as follows:
i	Contractor is entitled to Over Run Compensation (ORC) only for the portion of backlog attributable to BHEL.
ii	ii) 50% of the compensation as per clause 2.12.3 is allocated for deployment of resources agreed as per the joint programme drawn vide 2.11.4. Payment shall however be based on the actual deployment of resources for the month as certified by BHEL, as per weightages assigned therein
iii	50% of the compensation as per clause 2.12.3, is allocated for achieving of planned progress agreed as per the joint programme drawn vide 2.11.4. Payment shall be on pro rata basis for actual achieved quantities
iv	Total Over Run Compensation shall be limited to 10% of the executed contract value as certified in Final Bill. For this purpose executed contract value excludes PVC, ORC, Supplementary/Additional Items and Extra Works done on Manday rate basis
F	Contractor shall not be entitled for any Over Run Compensation (ORC) for the portion of backlog attributable to the contractor. Such works shall be executed at the rates applicable for the period the work was planned
i	The work gets delayed leading to extension of completion not attributable to the sub-contractor.
ii	The contractor achieves fixed target during Over-run period.
iii	The contractor shall maintain adequate work force , T&P and other resources during the entire contractual period including the overrun period.
iv	The contractor shall not prefer any other claim for compensation whatsoever once over-run charges are admitted.
v	The contractor shall not be qualified for overrun charges in case of operation of Force Majeure conditions indicated in the GSCC.
J.9	Any other activity not stipulated above but necessary for completion and commissioning of the machine shall also be treated to be in the above scope of work and have to be done by contractor at no extra cost.
J.10	Testing Equipment like: H. V. Test Kit, Micro ohm meter, Motorised Megger , UT machines, D- Meter etc shall be provided by BHEL. The sub-contractor shall be responsible for receipt from HQ/ BHEL-Unit /BHEL-Other vendor and transport to & fro Tajikstan site within the quoted price.
J.11	All other general and special T&P required for the RMU of the unit at site shall be provided by sub-contractor.
J.12	Sub-contractor shall arrange to provide at site all the required wooden pedestal as required for placement of rotor assembly and other components.
J.13	Assistance for Liaisoning with Local authority for carrying out the job.
J.14	All the material required for the jointing & re-insulation of rotor pole joints like insulation tapes, solder & flux shall be provided by BHEL.

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J.15	Sub-contractor has also to arrange proper preservation of new materials (Supplied from BHEL Manufacturing Units and other sources) as well as other dismantled components in store before & after repairs during the entire period of work at site. Sub-contractor shall have to arrange on mobile crane/Hydra & truck for 'Loading & Un-loading' of material in Store as well as for shifting the same from store to site.
J.16	Contractor should arrange suitable experienced manpower and sufficient T&P including winding tools, specified material & consumables to complete the job in scheduled time.
J.17	Sub contractor shall have to deploy highly experienced electrical & mechanical engineers.
J.18	Sub contractor shall have to arrange one Lathe Operator for the Lathe. One Lathe is available at site for carrying out small machining jobs.
J.19	Job has to be carried out on round the clock basis with sufficient manpower in each shift.
J.20	One full time office attendant to be kept in BHEL site office for office work.
J.21	All consumable like: markin cloth, Kerosene oil, Petrol, Jute, Diesel, grease, sufficient quantity of fire proof cloth for covering rotor & stator during dry out and other preservatives shall be arranged by the contractor at his own cost.
J.22	All measurement, level and clearance shall be recorded at each stage of repair & assembly of machine as per direction of BHEL engineers.
J.23	All consumable as required for grinding, cutting, welding, assembly (e.g gasket, packing, O-ring, small fastener, paints, suitable electrodes as required for SS & other material welding , S.S. shims & Molysulf grease, general purpose fasteners, black epoxy paint ,enamel paint etc . shall have to be arranged by the contractor at his own cost after BHEL approval.
J.24	All T&P like 2 Nos.DC rectifier for welding & heating of stator winding & poles, grinders, cutters, chain pulley block, jacks, pull lift machines, D shackles, heating oven, torque spanner etc. required for completion of the job, shall be arranged by the contractor at his own cost. Electrical T&P like: Digital multimeter (5 Nos.) & 5 Nos. tongtester (AC/DC, range 0-100, Amp. 0-1000 Amp), phase sequence meter, Three phase AC variac (0-30 Amp.), 2 Nos. Magger (500V/1000V) etc. shall be supplied by sub-contractor and same should from renound company like: Motewane or fluke make. Primary & Secondary injection kit for checking CTs & protection relays shall be arranged by sub-contractor at site.
J.25	Contractor had to deploy experienced mechanical /electrical engineers & electrician/ fitters for carrying out the job at site.
J.26	Special T&P as supplied by original manufacturer along with the machine shall be provided free of cost to sub-contractor at site. However special spanners, slings, required for the jobs but not available with customer in usable conditions shall be arranged by the sub-contractor at his own cost. In case of any damage to devices, T&P etc. provided by BHEL, the contractor will have to bear the replacement/repair cost.
J.27	Extreme care should be taken while using the preservatives or inflammables and all safety rules should be observed while lifting/lowering the heavy equipment/material. All safety rules in respect of handling of equipment of material is also to be observed.
J.28	Supply of all consumables including electrodes, gases, cleaning agents, adhesives, etc. as required for the job will be supplied by sub-contractor.
J.29	E.O.T crane facility and electricity required for completion of job will be provided free of cost. However electric bulbs, hand lamps, 24 V AC tranformer for hand lamps, flexible wire, cable, flood light etc. (all of ISI grade or international standard) required shall be arranged by the contractor at his own cost. One point supply shall be provided at site and sub-contractor has to arrange for the distribution of power as per the site requirement.
J.30	After running of machine on full load for 72 hours. Checking and re-tightening of all the bolts is included in the scope. All the nut bolts should be properly locked wherever required as per procedure.
J.31	Above-mentioned RM & U job involves repair/ replacement of various components in the turbine & generator. Any other work not mentioned/ not covered above, but essential for the completion of the above work & successful re-commissioning of the unit, shall also be treated to be within the scope of work.
J.32	This job shall be under guarantee period for 12 Calendar months severally for each machine after satisfactory completion of work of the concerned machine. In case any problem is reported in the machines , it shall be attended by sub-contractor free of cost during the guarantee period. Any consumables required for the above job shall be provided by sub-contractor free of cost. Sub-contractor shall have to mobilize their team at site within seven days of the reporting of any fault. In case of default , BHEL reserves the right to get the work done by any other agency at the risk and cost of sub-contractor besides other action as deemed by BHEL.
J.33	Sub-contractor shall submit a PERT chart for the job completion along with the no. of manpower shall be engaged in each shift.

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J.34	The sub-contractor shall be responsible for compliance to the Law of the land (i.e: All statutory legal compliances of Republic of Tajikistan) so much so that BHEL shall be kept indemnified and harmless against any default on the part of the contractor , their representatives, assigns, workers (Local as well as Indian/ other nationals), contract labours in respect of the law of Tajikistan. Further the sub-contractor shall be responsible, inter alia, for payment of wages / compensation to their workmen, contract labour under Minimum wages act & workmen compensation act and its equivalent applicable in Tajikistan without any liability on BHEL or Government of India.
J.35	The contractor shall deploy a Labour supervisor to co-ordinate with concerned authority in Tajikistan and to take care of all statutory requirements pertaining to Labour laws in the foreign land without any liability on BHEL.
J.36	The contractor shall adhere to all applicable safety requirements at project site as per the prevalent law of Tajikistan in addition to the compliances indicated in the NIT letter.
J.37	TAXES AND DUTIES
A	Companies shall not be liable to pay any kind of taxes including VAT, Custom duties in supplying the materials and equipments from india and /or other country for the excution of the project according to the legislation of the republic of Tajikistan, which shall be applicable for the project till its completion
B	Companies and their contractor shall not be liable to pay any taxex/duties/levies etc in Tajikistan on the goods purchased locally from state owned companies and also for the services for the excution of the projects
C	As per the legslation in the republic of Tajikistan, the expatriate staff of the companies and their contractos shall not be liable to pay any taxes and duties in tajikistan.
D	Companies and theircontractors are allowed to bring into Tajikistan as well as to repatriate to india any amount of currency deemed necessary for excution of the projects , as per the legislation of the republic of Tajikistan.
E	The price quoted should be inclusive all levies and TDS applicable shall be deducted as per law in force at the time of payment.
J.38	In case of any contradiction between GSCC & this special condition & Notes, the clauses mentioned herein shall be final and binding on the sub-contractor. However in any case the decision of BHEL engineer shall be binding on the sub-contractor.

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SECTION-I

INSTRUCTION TO TENDERERS

1.	GENERAL INSTRUCTIONS TO TENDERERS
1.1	Submission of Tender.
1.1.1a	The tender shall be sent in sealed cover after superscribing.
	TENDER NO. TENDER DATE & DUE DATE as per NIT
1.1.1a	The tender specification as a whole, duly furnishing following details and signed shall be sent in sealed cover.
1.1.1.1	Earnest Money Deposit.
1.1.1.2	Income Tax & Sales Tax return with acknowledgement
1.1.1.3	Detailed organization chart for manpower resources available with the tenderer and to be employed for the present jobs.
1.1.1.4	Time to be taken for commencement and completion of work.
1.1.1.5	A list of experience as mentioned in the tender document.
1.1.1.6	The details of the present job being handled.
1.1.1.7	Certificate from the bank to establish financial capability of the tenderer.
1.1.1.8	Attested copies of partnership deed, Power of attorney and tenders specifications duly signed as mentioned in the tender documents.
1.1.1.9	Price schedule and other relevant information.
1.1.1.10	PF code allotted by RPFC.
	Note: For more details other clause/ clauses, mentioned elsewhere may also be referred.
1.1.2	The tender shall be addressed to: REGIONAL SERVICE MANAGER BHARAT HEAVY ELECTRICALS LIMITED POWER SECTOR- NORTHERN REGION (SERVICES) HRDI & PSNR. Complex Plot No. 25, Sector- 16A, Noida- 201301 (U.P) Email: rkt@bhelpsnr.co.in , ssr@bhelpsnr.co.in Ph - 0120-2515408;2515410 (direct) 2515469-71 (PABX) FAX - 0120-2515438, 2515467
1.1.3	Tenders submitted by post shall be sent 'REGISTERED POST, ACKNOWLEDGEMENT DUE' and shall be posted with the due allowance for any postal delay. The tenders received after the due date and time of opening are liable to be rejected. Offers received by fax may not be considered unless confirmed in writing by a detailed offer.
1.1.4	Tenders shall be opened by the authorized officer of BHEL at his office at the time and date as specified in the tender notice in the presence of such of those tenderers or their authorized representative who may be present.

1.1.5	The tenderer shall closely peruse all the clauses, specifications and drawings indicated in the Tender Documents before quoting. Should the tenderer have any doubt about the meaning of any portion of the Tender Specifications or find discrepancies or omission in the Drawings or the tender documents issued are incomplete or shall require clarification on any of the technical aspect, scope of work etc., he shall at once contact the authority inviting the tender for clarification before the submission of the tender.
1.1.6	Before tendering, the tenderer is advised to inspect the site of work and the environments and be well acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later of the ground of lack of knowledge.
1.1.7	Tenderer must fill up all the schedules and furnish all the required information as per the instructions given in various section of the tender specification. Each and every page of the Tender Specifications must be signed and submitted along with the offers by the tenderer in token of complete acceptance thereof. The information furnished shall be complete by itself.
1.1.8	The tenderer shall quote the rates in English language & international numerals. The rate shall be in whole rupees. These rates shall be entered in figures as well as in words. For the purpose of the tender the metric system of units shall be used.
1.1.9	All entries in tender shall either be typed or be in ink. Erasures and overwriting are not permitted and may render such tender liable to summary rejection. All cancellation and insertions shall be duly attested by the tenderer.
1.1.10	Tenderer's offers and remarks and any deviation, shall be with reference to sections and clause numbers given in the tender schedule.
1.2	<u>Qualifications of Tenderers :</u> Only tenderers who have previous experience in the work of this nature and description detailed in this tender specification are "expected to quote for this work duly detailing their experience along with the offer. Offers from the tenderers who do not have proven and established experience in the field are not likely to be considered.
1.3	<u>Data to be enclosed :</u> Full information shall be given by the tenderer in respect of following. Non-submission of this information may lead to rejection of the offer/ tender.
1.3.1	<u>Financial Status:</u> A certificate from the Scheduled Bank to prove his financial capacity/ capability to undertake the work or solvency certificate from the concerned Government authority.

1.3.2	<p><u>Income Tax/ Sales Tax Certificate:</u></p> <p>A certificate of income tax/sales tax verification from the appropriate authority in the forms prescribed there of duly indicating annual turnover. These certificates shall be valid for one year from the date of issue of for the period prescribed there in for all tenders submitted during the period.</p>
1.3.3	<p><u>Previous Experience:</u></p> <p>A statement giving particulars duly supported by documentary evidence of the various services rendered for each similar work by the tenderer indicating the particulars and the value of each work. The site location and the duration and date of completion and also a list of site location and particulars and value of various services that are under progress.</p>
1.3.4	<p><u>Organization Chart:</u></p> <p>The organization pattern that is totally available with him and that will be employed by the tenderer for this work duly indicating the number of supervisors, their qualification and experience in the line, the number of skilled and unskilled persons etc</p>
1.3.5	<p>An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole Proprietor, shall also be attached.</p>
1.3.6	<p>In case of an individual :</p> <p>His full name, address and place and nature of business.</p>
1.3.7	<p>In case of Partnership firms :</p> <p>The name of all the partners and their addresses. A copy of the Partnership Deed Instrument of Partnership duly certified by the Notary Public shall be enclosed.</p>
1.3.8	<p>In case of companies:</p> <p>Date and place of registration including date of component certificate in case of public companies (certified copies of Memorandum and articles of association are also to be furnished)</p>
1.3.9	<p>Nature of business carried on by the company and the provision of the Memorandum relating thereof.</p>
1.3.10	<p>Name and particulars including addresses of all the directors and their previous experience.</p>
1.3.11	<p>A list of tools and tackles that the tenderer is having and those that will be used on this job.</p>
1.3.12	<p>In addition to the above, the particulars required in various annexures.</p>
1.4	<p><u>EARNEST MONEY DEPOSIT</u></p>
1.4.1	<p>Every tender must be accompanied by the prescribed amount of EMD.</p>
1.4.1.2	<p>Pay Order/ Demand Draft should be payable at Noida/ New Delhi duly pledged in favour of Bharat Heavy Electricals Limited.</p>

1.4.1.1	CASH: The amount should be remitted by the party to the Cashier of Bharat Heavy Electricals Limited, PSNR (Services). Noida and cash receipt issued by him enclosed along with the tender.
NOTE:	<u>One time EMD</u> Contractors, who are maintaining one time EMD of 1,00,000/= with either of our Regional Service Centers at Delhi, Chandigarh or Varanasi, should Mention in their offers, details of such one time EMD. Therefore, such tenderers need not deposit any additional EMD along with their offers.
1.4.2	Tenders received without Earnest money in full in the manner prescribed above are liable to be rejected.
1.4.3	The Earnest Money Deposit of the successful tenderer will be retained. However, the same may be released as soon as the Security Deposit mentioned under clause 1.8 is furnished.
1.4.4	In case of unsuccessful tenderers, the Earnest Money will be refunded to them within a reasonable time after finalization of the tender/placement of work order.
1.4.5	BHEL reserves the right to forfeit Earnest Money Deposit in case the successful tenderer. a) Fails to start the work as may be indicated in the letter of intent. b) After opening of tender, revokes his tender within the stipulated period or alters his earlier quoted rates/conditions.
1.4.6	No interest shall be payable by BHEL on Earnest Money.
1.5	Authorization & Attestation:
1.5.1	Tender shall be signed by persons duly authorized/ empowered to do so. Certified copies of such authority the relevant documents shall be submitted along with the tenders.
1.6	<u>Validity of Offer:</u> The rates in the tender shall be cap open for acceptance for a minimum period of six months from the date of opening of tenders. If a tenderer withdraws or revokes his tender or revises the tendered rates or conditions for any item with in the aforesaid period his Earnest Money Deposit is liable to forfeited. In case of Bharat Heavy Electricals Limited calls for negotiations such negotiation shall not amount cancellation or withdrawal of original offer which shall be binding on the tenderers.
1.7	<u>Execution of Contract</u> The successful Tenderer's responsibility under this contract commences from the date of issue of the letter intent by Bharat Heavy Electricals Limited.
1.8	Security Deposit:
1.8.1	Upon acceptance of tender, the successful tenderer before start of work must deposit the required amount towards security deposit.

1.8.2	The total amount of security deposit shall be as follows.	
	a) In the case of Upto Rs 10 Lakhs work	10% on the quote value
	b) In the case of work costing Rs. 10 Lakhs upto Rs.50 Lakhs	Rs 1 Lakh + 7.5 % of the above 10 Lakhs up to Rs.50 Lakhs
	c) In the case of work costing more than Rs. 50 lakhs	Rs 4 Lakh + 5.0 % of the amount exceeding Rs. 50 Lakhs
1.8.3	<p>Security Deposit may be furnished in any of the following forms</p> <p>a) Cash (as permissible under Income Tax Act)</p> <p>b) Pay Order, Demand Draft in favour of BHEL.</p> <p>c) Local cheques of schedule banks, subject to realization.</p> <p>d) Securities available from post offices such as National Saving Certificates, Kisan Vikas Patras etc. (certificates should be held in the name of contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back</p> <p>e) Bank Guarantee from the Companies Act subject to maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by case or in the other form of security. The Bank Guarantee format should have the approval of BHEL.</p> <p>f) Fixed Deposit Receipt issued by Schedule Banks/ Public Financial institutions as defined in the companies Act. The FDR should be in i the name of the contractor, AIC BHEL, duly Discharged on the back.</p> <p>g) Security deposit shall not carry any interest.</p> <p>h) In case of small value contracts not exceeding Rs. 10.0 Lakhs and all SAS jobs, work can be started before security deposit is collected. However payment shall be released after recovery of 50% security deposit from first RA bill.</p> <p>Acceptance of security deposit against Sl. No. d, e and f above will be subject to hypothecation or endorsement on the document in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of documents or in any other matter connected therewith.</p>	
1.8.4	If the value of the 'work done at any time exceeds the acceptance agreement value, the Security Deposit shall be correspondingly enhanced and the extra Security Deposit shall be immediately deposited by the contractor or recovered from payments due to him.	
1.8.5	Failure to deposit the security within the stipulated time, may lead to forfeiture of Earnest Money and cancellation of the award of work.	
1.8.6	The Security Deposits should cover upto the period of warranty also.	
1.8.7	If any part of Security Deposit of the contractor is held in the form of approved securities it shall be kept transferred in the name of Bharat Heavy Electricals Limited PS-NR (Services), Noida in such a manner that BHEL shall not be responsible for any depreciation in the value of the security during the currency of the contract.	

1.8.8	BHEL reserves the rights to forfeit Security Deposit in addition to other claims and penalties in the event of the contractor's failure to fulfill any of the contractual obligations or in the event of termination of Contract as per terms and conditions of contract.
1.8.9	Return of Security Deposit: If the contractor duly performs and completes the contract in all respect to the entire satisfaction of BHEL and presents an absolute "No demand certificate" in the prescribed forms and returns properties belonging to BHEL handed over lent or hired by him for carrying out the said works the security deposit will be released to the contractor after deducting all cost or other expenses or other amounts that are to be paid by BHEL under this or other contracts entered into with the contractor only after the satisfactory completion of guarantee period as per clause 2.13.
1.8.10	No interest shall be payable by BHEL on Earnest Money/ Security Deposit or any money due to the contractor by BHEL.
1.9	Rejection of tender and other conditions:
1.9.1	The acceptance of the tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever. a) To reject any or all of the tender b) To split up the work amongst two or more tenderers c) To award the work in part d) Either of the contingencies stated in (b) & (c) to modify the time for completion suitably e) To modify the scope of work after mutual agreement.
1.9.2	Conditional and un-witnessed tenders: Tenders containing absurd or unworkable rates and amounts and tender a which are incomplete and otherwise considered defective and tenders not in accordance with the tender conditions, specifications etc. are liable to be rejected.
1.9.3	If a tenderer expires after his submission of eh tender or after the acceptance of his tender. BHEL may cancel such tender at their discretion unless the firm retains its character.
1.9.4	BHEL will not be bond by any Power of attorney granted by the tenderer or changes in the compositions of the firm made subsequent to the execution of the contract. They may however recognize such Power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor concerned.
1.9.5	If the tenderer deliberately gives wrong information in his tender. BHEL reserves the right to reject such tender at any stage or to cancel the contract, if awarded and forfeit the Earnest Money Security Deposit.
1.9.6	Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by the Contractor who resorts canvassing are liable to rejection.
1.9.7	Should a tenderer or contractor or in the case of a firm or company of contractors one or more if its partner / Shareholders/ Directions have a relation or relations employed in the capacity of an officer of BHEL, the

	authority inviting tender shall be informed of the fact along with the offer, failing which, BHEL may at its sole discretion, reject the tender or cancel the contract and forfeit the Earnest money , Security Deposit.
1.9.8	The successful tenderer should not be sub- contract the part of complete work detailed in this tender specification / undertaken by him without written permission of BHEL. The tenderer is solely responsible to BHEL for the work awarded to him. Any deviation in this regard will entail termination of such contract by BHEL at their risk and responsibility of the tenderer.
1.9.9	The successful tenderer shall inform/ keep BHEL informed if he has already undertaken any work / is likely to be awarded any job with the same customer with whom BHEL is entering into contract.

SECTION-II

GENERAL TERMS & CONDITIONS OF THE CONTRACT

2.1	<u>Definitions:</u> The following terms and expressions shall have the meaning hereby assigned to them except where the context otherwise requires.
2.1.1	'BHEL' (or B.H.E.L. Ltd) shall mean Bharat- Heavy Electrical Limited a company incorporated under Indian companies Act 1956, having its Registered office at BHEL HOUSE, SIRI FORT, and NEW DELHI. Power Sector - Northern Region (Services), Noida or its Administrative Offices or its Site Engineer or other employees authorized to deal with any matters with which these persons are concerned on its behalf.
2.1.2	"General Manager/ DGM/ IN-CHARGE" shall mean the officer in Administrative charge of BHEL. PS-NR (services) Noida or their other regional office.
2.1.3	"ENGINEER" OR "ENGINEER IN CHARGE" shall mean Engineer deputed by BHEL. The term "SITE ENGINEER" "SITE INCHARGE" "RESIDENT ENGINEER" and "RESIDENT MANAGER" of BHEL at the site as well as the officers in-charge at Noida office.
2.1.4	"SITE" shall mean the place or places at which the plants/ equipments are to be overhauled and services are to be performed as per the specification of this contract.
2.1.5	"CLIENTS OF BHEL" or "CUSTOMER" shall mean the project authorities to whom BHEL is supplying the equipments/ Service.
2.1.6	"CONTRACTOR" shall mean the individual, firm or Company who enters into this Contract with BHEL and shall include their executors, administrators, successors and permitted assigns.
2.1.7	"CONTRACT" or "CONTRACT DOCUMENT" shall mean and include the agreement or work order the accepted appendices of rates. Schedule of quantities, if any and general conditions of contract, the special conditions of contract, instructions to the tenderers, the drawings, the specifications, the special specification, if any, the tender documents are the Letter of Intent/ Accepting Letter issued by BHEL, Any conditions or terms stipulated by the contractor in the tender documents or supporting letters shall not form part of the contract unless specifically accepted in writing by BHEL & incorporated in the agreement.
2.1.8	"GENERAL CONDITIONS OF CONTRACT" shall mean the instructions to tenderers and general conditions of contract pertaining to the work detailed.
2.1.9	"TENDER SPECIFICATION" shall mean the specific conditions, technical specification, appendices, site information and drawing" pertaining to the work for which the tenders are required to submit their offer. Also this will include the specification covered under specifications detailed in NIT of client of BHEL for overhauling, erection, testing and commissioning of

	plant. Individual specification No. will be assigned to each tender specifications.
2.1.10	“TENDER DOCUMENTS” shall mean the general conditions of contract (2.1.8) tender specification (2.1.9)
2.1.11	“LETTER OF INTENT” shall mean the intimation by a letter to the tenderer that tender has been accepted in accordance with provisions contained in that letter. The responsibility of the contractor commences from the date of issue this letter and all the terms & conditions of contract are applicable form the date.
2.1.12	“COMPLETION TIME” shall mean the period by date specified in the acceptance of tender for handing over the overhauled equipment/ plant which are found acceptable by the Engineer being of required standard and conforming to the specification of contract.
2.1.13	“PLANT” shall mean and connote the entire assembly of the plant and equipment covered by the contract.
2.1.14	“EQUIPMENT” shall mean all equipments, machineries, materials, structural, electrical and other components of the plant covered by the contract.
2.1.15	“TEST” shall mean and include such test or tests to be carried out on the part of contractor as are prescribed in the contract or consider necessary by BHEL, in order to ascertained the quality, workman ship, performance, and efficiency of the contract work or part thereof
2.1.16	“APPROVED”, “DIRECTED” or “INSTRUCTED” shall mean approved directed or instructed by BHEL.
2.1.17	“WORK OF CONTRACT WORK” shall mean and include supply of all categories of labour, specified consumable, tools & tackles required for complete and satisfactory site transportation, handling, stacking, storing, overhauling, erecting, testing and commissioning of the equipment to he entire satisfaction of BHEL.
2.1.18	“SINGULAR AND PLURAL ETC” words carrying singular number shall also include plural and vice versa, where the context so requires, words importing the masculine gender shall be taken to include the feminine gender and words importing persons shall include any company or association or body of individuals, whether incorporated or not.
2.1.19	“HEADING”, The headings in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part there or of the contract.
2.1.20	“MONTH” shall mean calendar month.
2.1.21	“WRITING” shall include any manuscript, type written or printed statement under the signature of deal as the case may be.
2.2	Law governing the contract and court Jurisdiction: The contract shall be governed by the law for the time being in force in the

	Republic of India
2.2.	<p><u>Law governing the contract and court Jurisdiction:</u> The contract shall be governed by the law for the time being in force in The Republic of India. The Civil Court, having ordinary original civil jurisdiction in Delhi shall alone have exclusive jurisdiction in regard to all claim in respect of this contract.</p>
2.3	<p><u>Issue of Notice:</u> The contractor shall furnish to the BHEL Engineer the name, designation and address of his authorized agent and all complaints, notices, communications and reference shall be deemed to have been duly given to the Contractor if delivered to the contractor his authorized agent or left at or posted to the address either of the contractor or of his representation and shall be deemed to have been so given in the case of posting on the day on which they would have reached such address in the ordinary course of post or on which they were so delivered of / or left.</p>
2.4	<p><u>Use of Land:</u> No land belonging to BHEL or their customer under temporary possession of BHEL shall be occupied by the contractor without the t written permission of BHEL.</p>
2.5	<u>Commencement of work:</u>
2.5.1	The contractor shall commence the works within the time indicated in the letter of intent from BHEL and shall proceed with due expedition without delay.
2.5.2	If the successful tenderer fails to start the work within the stipulated time, BHEL, at its sole discretion will have the right to cancel the contract. His Earnest Money and / or Security Deposit with BHEL will stand forfeited without any further reference to him, prejudice to any and all of BHEL's other rights and remedies in this regard.
2.5.3	All the works shall be carried out under the direction and to the satisfaction of BHEL.
2.5.4	The erected/ overhauled plant or work performed under the contract shall be taken over when it has been completed in all respects and/ or satisfactory put into operation at site.
2.6	<u>Mode of payment and measurement of the work competed:</u>
2.6.1	All payment due to <u>the contractor shall be paid only by “ Account payee cheques” or through ECS (Electronic Clearance).</u>
2.6.2	The contractor shall submit his bill to site In-charge of BHEL for every payment After verification measurement shall be certified by the BHEL Engineer.
2.6.3	Lump sum omission will be entered for deduction. Measurement shall be

	restricted to that for which it is required to ascertain the financial liability of BHEL under this contract,
2.6.4	Work which is to be measured in detail shall be measured as per standard procedure without reference to any local procedures exception where it is otherwise stated in the tender documents. The measurement shall be taken jointly by persons duly authorized on the art of BHEL and the contractor.
2.6.5	If, at any time due to any reason whatsoever, it becomes necessary to re-measure, the contractor shall without extra charges, provide all the assistance with appliances and other things necessary for measurement.
2.6.7	The measurement and the bill prepared shall be signed and dated by both the contracting arties.
2.6.8	The contractor will be intimated in writing by the Site Engineer, the proposed date of measurement if the Contractor's representative fails to participate in the joint measurement, the BHEL Engineer shall have the power to proceed by himself to take measurement in which case the measurement shall be accepted by the contractor as final.
2.6.9	Passing of measurement as per bills does not amount to acceptance of completion of the work mentioned. Any left out work has be completed if pointed out at a later date by BHEL.
2.7	<u>Rights of BHEL:</u> BHEL reserves the following rights in respect of this contract without entitling the contractor for an compensation:
2.7.1	To get the work done through other agency at the risk and cost of the contractor in the event of contractor's poor progress, or inability to progress the work for completion as stipulated in the contract, poor quality of work etc. and to recover compensation for such losses from the contractor including BHEL's supervision charges and overheads from security deposit other dues.
2.7.2	To withdraw any portion of work and / or to restrict/ alter the quantum of work as indicate din the contract during the Progress of work and get if done through other agency and or by departmental labour to suit BHEL's commitment to its customer or in case BHEL decides to advance the date of completion due to other emergency reasons BHEL's obligation to its customer.
2.7.3	To terminate the contract after 15 days written notice and forfeit security deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the event:
2.7.3.1	Contractor's continued poor progress brought to his notice from time to time
2.7.3.2	Withdrawal from or abandonment of the work before completion of the work.
2.7.3.3	Corrupt act of contractor.
2.7.3.4	Insolvency of the contractor and in case of a company a winding up

	proceeding is initiated or winding up order has been made by a court.
2.7.3.5	Persistent disregard to the written instructions of BHEL under the contract.
2.7.3.6	Assignment, transfer, sub-letting of the contract without BHEL's written permission.
2.7.3.7	Non-fulfillment of any contractual obligations. Any delay in works for reasons not attributable to the contractor will have to be compensated by either increasing manpower and resources or by working extra hours and more than one shift without any extra cost.
2.7.4	To recover any money due from the contractor, from any money due to the contractor under this contract or any other contract or from the security deposit.
2.7.5	To claim compensation for losses sustained including BHEL's supervision charges and overheads on termination of contract and to impose penalty for delay in completion of the work.
2.7.6	To terminate the contract or to restrict the quantum of work and pay for the portion of work executed in case BHEL's contracts with their customers are terminated for an reason.
2.7.7	To effect recovery from the amounts due to the contractor under this or any other contract etc. in any other form, the money, BHEL is forced to pay to anybody, due to contractor's failure to fulfill nay of his obligations.
2.7.8	While every endeavor will be made by BHEL they cannot guarantee uninterrupted work due to conditions beyond their control. Contractor will not be entitled to any compensation / extra payment on this account.
2.7.9	In the event of any dispute of any nature, the decision of BHEL shall be final and binding on the contractor.
2.8	<u>Responsibilities of the Contractor:</u> The following are the responsibilities of the contractor in respect of observation of local laws, employment of personnel. Payment of taxes an execution of job etc.
2.8.1	As far as possible, unskilled workers shall be engaged from the local area in which the work in being executed.
2.8.2	The contractor at all times during the continuance of the contract, shall, in all his dealing with local labour for the time being employed or in connection with the work, have due regard to all local festivals and religions and other customs.
2.8.3	The contractor shall duly comply with all state and central Laws, statutory rules, Regulations etc, including but not limited to : The payment of wages act, minimum wages act, workmen compensation act, industrial dispute act, employees provident fund act and various schemes framed there after. Employee state insurance scheme contract labour (regulation & abolition) act 1970 and other Act, rules & regulations for labour as may be enacted by the government during the tenure of the contract and having force or jurisdiction at site. The contractor shall give to

	the local governing body, Police and other relevant authorities all such notices as may be required by law
2.8.4	The contractor shall pay all taxes, fees, license charges duties, tools, royalty, commission or charges which may be leviable on account of his operations in executing the contract, in case, BHEL makes such payment, shall have the right to recover the same from the contractor either from his bills or otherwise as deemed fit.
2.8.5	The contractor shall be responsible for provision of welfare, health and sanitary arrangements (particularly described in contractor Labor (regulation & abolition Act) safety precautions etc. as may be required for safe and satisfactory execution of the contract.
2.8.6	The contractor shall fulfill all his obligations in respect of accommodation including proper medical facilities for the personal employed by him.
2.8.7	The contractor shall be responsible for the proper behavior at site and observance of all regulations by the staff employed by him.
2.8.8	The contractor shall ensure that no damage is caused to any person/property or other parties working at site, if any such damage is caused it is the responsibility of the contractor to make good the losses or compensate for the same.
2.8.9	All the properties / equipments/ components of BHEL / their client loaned to the contractor, with or without deposit in connection with the contract shall remain the properties of BHEL / their client. The contractor shall use such properties for the purpose of executions of this contract. All such properties / equipments shall be deemed, to be in good condition when received by the contractor unless he notifies within 48 hours to the contrary. The contractor shall return them in good condition as and when required by BHEL / their client. In case of non-return, loss, damages, repairs etc. the cost there of, as may be fixed by the site Engineer, will be recovered from the contractor.
2.8.10	It is not obligatory on the part of BHEL to supply any tools and tackles or other materials other than those specifically agreed to do so by BHEL. However, depending upon the availability / possibility, BHEL's customer's handling equipment and other plants may be made available to the contractor on payment of the hire charges free of charges as fixed, subject to the condition laid down by BHEL customer from time to time. Unless paid in advance, such hire charges, if applicable shall be recovered from contractor's bill security deposit in ONE installment.
2.8.11	The contractor shall not be entitled to claim any compensation due to changes in design which results in reduction in quantum of work.
2.8.12	The contractor shall fully indemnify BHEL against all claims of whatsoever nature arising during the course of work under the contract.
2.8.13	In case the contractor is required to undertake any major work outside the

	scope of this contract, the rates payable shall be decided by BHEL.		
2.8.14	The contractor shall keep the area of work clean and shall remove debris etc. while executing day-to-day work. Upon completion of work the contractor shall remove from the vicinity of work all scrap, packing materials, rubbish, unused and other materials and deposit them in places to be specified by the BHEL engineer. The contractor will also demolish all the hutments, sheds offices, constructed and used by him and shall clean the debris. In the event of his failure to do so the same will be arranged to remove by BHEL. The expense there of will be recovered from contractor by any lawful means available with BHEL.		
2.8.15	The contractor shall arrange and coordinate his work in such a manner as to cause no inconvenience to other agencies working in the area.		
2.8.16	All safety rules and codes applied by the client / BHEL at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment / material and work to be performed by him and shall maintain all light, fencing guards, signs etc. or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from the time to time by the Engineer with a view to prevent pilferage, accidents, fire hazards and due precautions shall be taken against fire hazards and atmospheric condition. Suitable number of clerical staff, watch and wards, store keepers to take care of the equipment, materials and construction tools and tackles shall be posted at site by the contractor till completion of the work under this contract.		
	The contractor shall arrange for such safety device as are necessary for such type of work and carryout the requisite tests of handling equipment, lifting tools, tackles etc. as per prescribed standards and practices. All guide lines as mentioned in "SALARY CODE" –Service "mentioned in Services tender page in www.bhelpsnr.co.in will form part of this tender and hence contract.		
	HELMETS Following colors of Helmets are to be worn by various category of personnel of the contractor. In case of violation, found during inspection of fine of Rs. 500/- per inspection can be imposed by BHEL.		
	S.No.	Category	Color of Helmet
	1.	Sub-contractor officers	Light Blue
	2.	Sub-contractor Safety personnel	Green
	3.	Sub-contractor Electrician	Orange
	4.	Sub-contractor- Supervisors	Dark / blue
	5.	Sub-contractor Workers	Yellow
	It should confirm to IS-2925-1984		

2.8.17	The contractor will be directly responsible for payment of wages to his workmen. The payment to the workmen should be made in the presence of a representative of BHEL (as per contract labour / regulation & abolition act). A pay / wage roll sheet giving all the payments given to workers and duly signed by the contractor's representative should furnish to BHEL site office for record purpose. Payment date, time and place will be informed by the contractor to the Resident Manager / Engineer of BHEL immediately on commencement of work.
2.8.18	The intent of specification is to provide services according to most modern and proven techniques and codes. The omission of specific reference to any method requirement of material necessary for the, proper and efficient performance of work shall not relieve the contractor of the responsibility of providing such facilities to complete the work.
2.8.19	In case of any clause of the work for which there is no such specification as laid down in the contract, such work shall be carried, out in accordance with the instructions and requirements of the BHEL Engineer.
2.8.20	No levy or payment or change made or imposed shall be impeached by reason or any clerical error or by reason of any mistake in the amount levied or demanded or charged.
2.8.21	The detailed drawings, specifications, instruction manual, if any available with the BHEL Engineer form part of tender specification. These documents will be made available for reference only to the contractor during execution of work.
2.8.22	Should any error or ambiguity be discovered in the specification, the contractor shall forthwith bring the same to the notice BHEL before commencement of work? BHEL's interpretation in such cases shall be final and binding on the contractor.
2.8.23	No idle labour charges will be admissible in the event of any stoppage caused in the work resulting in contractor's labour being rendered idle due to any cause or reason whatsoever.
2.8.24	Unless stipulated in the contract/order, No over run charges shall be paid in the event of the completion period being extended for any reason whatsoever.
2.8.25	It is possible that some repair/rectification, modification may be needed on the equipment to be overhauled /work to be performed under the specification, for reasons not attributable to the contractor. All such repair / rectification/ modification work with the available facilities at site shall be carried out by the contractor free of cost and no extra charges shall be paid to the contractor.

2.8.26	The quality and progress of work will be regularly reviewed. The schedule and progress of work will be the obligation/responsibility of the contractor to achieve the desired quality and progress of work by suitably reinforcing their labour force and / or by working extra hours or in more than one shift without any extra cost. Workmen found unsuitable for the work will be replaced immediately by the contractor on being informed by BHEL
2.8.27	During the overhauling work under the contract it is very essential that proper and adequate inspection should be made constantly to maintain the quality of workmanship so that any deviation from design dimension does not exceed permissible limit. The proper functioning of the unit. While in operation depends to a great extent on the above factors. The fact that effective supervision and inspection at the execution stage is less costly than down time of running unit even for a short period need not be over emphasized. For the details regarding alignment and permissible dimensional deviations in the subassemblies, BHEL Engineer may be consulted.
2.8.28	The contractor shall furnish weekly labour report showing name classification. The number of employees engaged in various categories of work data wise and a progress report of work as required by BHEL Engineer. The contractor shall also furnish weekly report of overtime work performed by his workers by name, indicating overtime hours of each worker date-wise
2.8.29	The contractor shall execute the work in the most substantial and workman-like manner in stipulated time. Accuracy of work and timely execution are the essence of this contract. The contractor shall be responsible to ensure that the assembly and workmanship conform to the dimensions and clearances given in the drawings and / or as per instructions of BHEL Engineers.
2.8.30	The contractor shall take all reasonable care to protect materials and work till such time the plant / equipment has been taken over fencing and lighting shall have to be provided by the contractor as a safety measure against accident and damage of property of BHEL/ their client. Suitable caution notices shall be displayed where access to any part may be deemed to be unsafe and hazardous.
2.8.31	It will be the responsibility of the contractor to ensure safe lifting of the equipment taking due precautions to avoid any accidents and damage to other equipments and personnel.
2.9	<u>Consequences of cancellation:</u> Whenever BHEL exercises its authority to terminate the contract/withdraw a portion of work under the clause 2.7 they may complete the work by any means at the contractor's risk and expense provided that in the event of the cost of completion (as certified by the site Engineer which is final and conclusive) being less than the contract cost, the advantage shall accrue to BHEL and if the cost of completion exceeds the money due to the contractor

	under the contract the contractor either shall pay the excess amount ordered by BHEL or the same shall be recovered from the contractor by any other means. This will be in addition to the forfeiture of security deposit and recovery of liquidated damages as per relevant clauses.
2.9.1	In case BHEL completes the work under the provision of this condition, the cost of such completion to the contract or under this condition, shall consist of materials purchase and / or labour, provided by BHEL with an addition of such percentage to cover supervision and establishment charges as may be decided by BHEL.
2.10	<u>Insurance:</u>
2.10.1	BHEL / their customer shall arrange for insuring the materials / properties of BHEL / Customer covering the risks during transit, storage, overhauling, erection and commissioning.
2.10.2	It is the sole responsibility of the contractor to ensure his workmen against accident and injury while at work as required by relevant rules and to pay compensation, if any, to workmen as per Workmen's compensation Act. Contractor shall ensure his staff against accidents. The work will be carried out in protected area and as per the rules and regulations of the client / BHEL, in the area of project which are in force from time to time, will have to be followed by the contractor.
2.10.3	If due to negligence and / or non-observance of safety and other precautions, any accident / inquiry occurs to any other personal public, the Contractor shall have to pay' necessary compensation and other / expenses, if so decided by the appropriate authorities.
2.10.4	If due to contractor's carelessness, negligence or non-observance of safety precautions damage to BHEL's I customer's property and' personnel should occur, and if BHEL's Customer is unable to recover, in full, cost from the Insurance company the balance will be recovered from the Contractor.
2.11	<u>Strikes & Lockouts:</u> The contractor will be fully responsible for all the disputes and other issues connected with his labour. In the event of contractor's labour resorting to lockout and if the strike or lockout declared is not settled within a period of one week BHEL shall have the right to get the work executed employing its own labour or through any other agencies or both and the cost so incurred by BHEL, shall be deducted from the contractor's bills as per clause 2.7. For all purposes whatsoever that employees of the contractor shall not be deemed to be in the employment of BHEL.
2.12	<u>Force Majeure:</u>
2.12.1	The following shall amount to force majeure: Acts of God. Acts of any Government, War sabotage, riots, civil commotion, police action, revolution, flood, fire, cyclones, earth-quake and epidemic and other similar causes over which the contractor has no control.

2.12.2	<p>If the contractor suffers delay in the due execution of the contractual obligations due to delays caused by force Majeure as defined above, the agreed time of completion of the job covered by this contract or the obligations of the Contractor shall be extended by a period of time equal to the period of delay provided that on the occurrence of any such contingency the contractor immediately reports to BHEL in writing the cause of delay. The contractor shall not, however, be eligible for any compensation,</p>
2.13	<p><u>Performance Guarantee:</u></p> <p>The contractor shall guarantee against defects attributable to faulty workmanship or procedure adopted in the overhaul for items covered in the contract for a period as given in the tender document from the 1 date of re-commissioning of the set after the capital overhaul. The guarantee shall cover all defects notified during this period and shall I have to be attended to free of cost immediately of at the time our clients are able to given shut down of the set for the required period, when necessary. In case of failure of contractor to attend to the defects, as and when required, in time. BHEL shall arrange to attend the defects and the charges shall be levied to contractor's account and shall be recoverable from the security deposit/ progress payments</p>
2.14	<p><u>Arbitration:</u></p> <p>All disputes or differences between the parties to the contract arising out or in relation to the contract, other than those for which the decision of the Engineer or of any other person is by the contract expressed to be final and conclusive, shall after written notice by either party to the contract to other party be referred to sole arbitration of General Manager of BHEL or his nominee, the arbitration shall be conducted in accordance with the provisions of the INDIAN ARBITRATION AND CONCILIATION ACT 1996 OR REVISION THEREOF> The arbitrator shall give reasons for the award.</p> <p>The parties to the contract understand and agree that it will be no objection that the said General Manager or the person nominated by him as arbitrator, had earlier in his official capacity to deal directly or indirectly with the matters to which the contract relates or that in the course of his official duties had expressed views on all or any of the matters in dispute of difference. The award of the arbitrator shall be final and binding on the parties to this contract.</p> <p>In the event of the arbitrator dying, neglecting or refusing to act or</p>

resigning or being unable to act for any reason. It shall be lawful for the said GM, or his successor, as the case may be, either to act himself as the Arbitrator or to appoint another in place of the outgoing arbitrator in the manner aforesaid.

The arbitrator may from time to time, with consent of both the parties to the contract, enlarge the time for making the award.

Work under the contract shall be continued during the arbitration.

The venue of arbitration shall be the place from where the contract / work order is issued or such other place as the arbitrator at his discretion may determine.

SECTION-III

SPECIAL CONDITIONS OF CONTRACT

3.1	<u>Quantum of work</u>
3.1.1	The scope of work given in the tender specification is only approximate and is liable to variation and alterations at the discretion of BHEL Resident Engineer. No compensation on this account shall be payable to the contractor unless specifically recommended by Resident Engineer as the variation forming major additions to the original scope of work. All repair/rectification work arising out of normal wear and tear, seizure of parts etc. have to be done by the scope of work of the contract.
3.1.2	The scope of work details out the major activities only. However as per the general maintenance requirement and site condition, certain relation activities may be carried out by the contractor without any extra cost.
3.2	Commencement and completion work:
3.2.1	<p>The starting time and completion time is the essence of the tender. As the time bound program is firmly committed to customer the starting time and completion time should be strictly adhered to. It will not be possible to grant extension in completion time except in extra ordinary circumstances which will be decided entirely at the discretion of BHEL Resident Engineer. Work should normally be carried out in two shifts and sometimes also in three shifts in consultation with the BHEL Resident Engineer.</p> <p>A detailed program of the various activities covered under this contract with specific time periods to fall in the overall frame work of the above dates should be prepared and got approved by BHEL Resident Engineer. The progress against this program shall be reviewed with BEL Resident Engineer at the end of each day and critical areas identified and suitable steps taken in time.</p> <p>If during the review, at any stage of overhauling. BHEL Resident Engineer feels that the delays are not likely to be made up. BHEL reserve the right to take corrective steps as considered necessary by BHEL Resident Engineer to complete work in schedule time and debit the cost incurred there on to the contractor. This does not however absolve the contract of own efforts in consultation with BHEL Resident Engineer. Every endeavor will be made to see that work proceeds uninterruptedly.</p>
3.2.2	The tenderers should indicate the time required for starting the work once the letter of intent is issued along with the time required for completion. The work may have to commence immediately after opening of the tenders. Hence, preference may be given to those tenders who can commence the

	<p>work earlier, and also ensure early completion.</p> <p>The tenderers should indicate the time required for starting the work once the letter of intent is issued along with the time required for completion. The work may have to commence immediately after opening of the tenders. Hence, preference may be given to those tenders who can commence the work earlier, and also ensure early completion.</p>
3.2.3	The contractor shall ensure completion of the job in all respects within the days from the date of commencement of work as given in contract.
3.3	<u>Penalty for delay :</u>
3.3.1	If not mentioned otherwise in the notice inviting tender, in the event of failure to complete the work in given time, an amount equal to 1/2 % of the contract value per day subject to maximum of 10 % of the contract value will be levied as penalty, in case the balance work is allowed to be completed by the contractor beyond the scheduled time of completion, which is at the discretion of BHEL. In case of delays on contractor's part, at any stage during the scheduled period or after, BHEL shall have the option of ensuring completion of the job by any other means at its disposal and the charges on this account shall be levied on the contractor. These shall be adjusted against contractor's bills or security deposit.
3.4	<u>Terms of payments</u>
3.4.1	<p>If not mentioned otherwise in the notice inviting tender, payment will be made up to a total 90 % against three progressive bills of 30 % each submitted by the contractor in quadruplicated mentioning the allotted and completed percentages of the activities.</p> <p>On the basis of completed measurement of work done, the bills will be verified by BHEL Site Engineer and certified by BHEL Resident Engineer to arrange payment. Balance 10 % shall be payable after successful completion of job.</p> <p>All payments are subject to income tax deduction at the applicable rates of the bill amount at source or as per Central Government Laws; No request for advance payment will be entertained by BHEL.</p> <p>BHEL reserves the right to withhold payment in case terms and conditions as per contract are not fulfilled by the contractor.</p>
3.5	<u>Inspection and completion or work:</u>
3.5.1	<p>The work being carried out by contractor will be supervised and inspected by our site engineers under the overall supervision of BHEL Resident Engineer.</p> <p>The work will be deemed as completed when it is finally accepted by BHEL Resident Engineer and job completion certificate is issued. No extra payment will be made for any rework carried out by the contractor to rectify any defective work.</p>

3.5.2	The contractor shall not be entitled for labour idling charges under any circumstances.
3.6	Tools, Tackles, Test Equipments and Consumables:
3.6.1	Unless otherwise mentioned in the notice inviting tender, all tools and tackles and consumables required for day to day work like gases, gas cutting sets with accessories, AC/ DC welding sets, TIG welding kits, welding cables, electrodes etc. all necessary power connection to equipment, all temporary electrical connection boards, required for the work shall be arranged by the contractor at his own cost.. However in case of emergency, BHEL may supply certain items, if available, to contractor at actual cost plus handling charges; These will be deducted from contractor's running bills, T&P shall be regularly tested by the contractor to ensure that the same is available in fit condition for use. Testing equipment for conducting various tests, during the progress of overhauling/ commissioning shall have to be provided by the contractor. Spare parts going into permanent installation shall only be provided by BHEL.
3.7	<u>Accommodation for site staff and store space:</u>
	Contractor has to arrange for the stores and office at site and' its maintenance. Space for the same shall be made available as per the availability at site. The contractor shall be responsible to provide all necessary facilities, like residential accommodation with sanitary facilities transport, electricity, water medical, bonus etc. as required under various labour laws and statutory rules and regulations framed there under to the personnel employed by him. BHEL assumes no liability in this regards.
3.8	Responsibilities of the contractor
3.8.1	Supervisory staff and labour: The contractor shall employ, specially skilled labour, supervisors and engineers thoroughly conversant with particular type of 'work to ensure quality work. BHEL reserves the right to insist on removal of any employees of the contractor at any time if they find him unsuitable and the contractor should forthwith remove him and provide a suitable substitute.
3.8.2	<u>Planning and Execution:</u> Contractor shall submit a job planning in form of a Bar Chart or PERT chart. A list of manpower category -wise, indicating individual's responsibility job/ activities - wise, shall have to be submitted. Daily program of job shall be displayed on a board near work site one day in advanced. A daily progress report along with Manpower utilized has to be submitted and backlog of the work, if any, shall be covered up in consultation with BHEL Resident Engineer.
3.8.3	<u>Safety and Accident Coverage</u> Contractor shall ensure safety of all his employees at site of work. All employees shall be covered by insurance (workman compensation) against accident, failing which proper action will be taken against the contractor.

	Contractor shall also ensure proper safety of the equipments under overhauling by deputing personnel to guard the equipments round the clock.. Open oil spaces, steam space shall be covered properly against ingress of foreign material while working.
3.8.4	<p><u>House keeping and preservation:</u> Work floor/ area shall be cleaned every day and be kept absolutely clean. A regular cleaning gang may be engaged for the purpose. All dismantled components of the equipments under overhauling should be tag marked and be stored properly according to type of components, namely all loose / small parts shall be kept in boxes bearing and matching components, shall kept on wooden planks. A list of such components shall be maintained to identify/locate, be preserved properly against probable damages. No floor shall be damaged by the contractor while working and necessary steps shall be taken, in case any such damages take place.</p>
3.8.5	<p><u>Tools stores consumables:</u> Tools & tackles other than special tools and tackles supplied along with the equipment, shall be arranged and stored properly by the contractor. A register must be maintained and updated regularly. All consumables, other than those going permanently into the equipments, shall be stored by the contractor for daily use. Regular check shall be made at end of each day's work and exhausted consumables shall be replenished immediately. The contractor's store may be visited by BHEL engineers without notice to contractor for verification.</p>
3.8.6	<p>The contractor shall make all necessary arrangement to receive spares from BHEL/ customer's stores, and when required. The unused and scrap materials shall be returned to BHEL/ Customer's stores on completion of the work. A detailed account shall be submitted by the contractor to this effect at the end of the work certifying no dues remained against them duly signed by Resident. Engineer BHEL / Customer.</p>
3.9	<u>General</u>
3.9.1	Standard printed conditions if enclosed with the offer by the tenders will not considered but only if stated in main body of the offer will be considered for acceptance.
3.9.2	It will be responsibility of the contractor to carry out trial run of all the equipments overhauled and confirm the satisfactory operation of equipment. The contractor's personnel shall be present at the time of final commissioning and attend to any defects that shall occur during this time at no extra cost to BHEL.
4.0	Information Security Of PSNR
4.0.1	The contractor shall ensure that the drawing, documents used during execution of contract are kept strictly confidential. The contractor shall ensure that the information confidentiality integrity and availability are

	maintained as per business equipments. The information shall not under any circumstances, be used in any form with any other agency or for any purpose other than that for which it is intended.
4.1	Social Accountability
4.1.1	PSNR is committed to follow the social accountability in line with SA 8000. The contractor shall duly follow the same during the tenure of execution of the contract.
4.1.2	The Contractor shall not employ any employee less than 15 years of age in pursuant to ILO convention. If any child labour were found to have been engaged, the contractor shall be levied with expenses of bearing his education expenditure which will include stipend to substantiate appropriate education or employ any other member of family enabling to bear the child education expenditure.
4.1.3	The contractor shall not engage Forced/ Bonded Labour and shall abide by abolition of Bonded labour system (Abolition) Act, 1976
4.1.4	The contractor shall maintain Health & Safety requirement as stipulated in the contract and contract labour (Regulation & Abolition) Act, 1970
4.1.5	The contractor shall abide UN convention w.r.t Human Rights and shall be liable for Discrimination / Corporal punishment for failure in meeting with relevant requirements.
4.1.6	The contractor shall abide the requirement of Contract labour (Regulation & Abolition) Act 1970 for working hours.
4.1.7	The Contractor shall abide by the Statutory requirement of Minimum Wages Act 1948 payment of Wages Act 1936.
5.0	Past Performance
	BHEL reserve the right to reject a bidder based on their unsatisfactory past performance at any other project.
6.0	SERVICE TAX
6.1	"Price quoted shall be exclusive of service tax. The service tax, as legally levyable & payable by the contractor under the provisions of applicable law' / act, shall be paid by BHEL as per contractor's bill. However, contractor shall have to submit proof of service tax deposited by them immediately after the deposit but not late than the next bill submitted after the due date of deposit. The contractor shall furnish proof of service tax registration with Central Excise Division covering the services covered under this contract; Registration should also bear endorsement for the premises from where the billing shall be done by contractor on BHEL for this project.