



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 07

Ref: PSER: SCT: SRG-M1677: TCN-07

Date: 27-08-2015

Sub	Tender Change Notice (TCN)- 07.
Job	Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.
Ref	1.0 Tender no PSER:SCT:SRG-M1677:15
	2.0 BHEL's NIT, vide reference no PSER:SCT:SRG-M1677: 4479 Date: 23-05-2015
	3.0 BHEL's TCN-01,vide reference no PSER: SCT: SRG-M1677: TCN-01 Date: 15-06-2015
	4.0 BHEL's TCN-02,vide reference no PSER: SCT: SRG-M1677: TCN-02 Date: 22-06-2015
	5.0 BHEL's TCN-03,vide reference no PSER: SCT: SRG-M1677: TCN-03 Date: 06-07-2015
	6.0 BHEL's TCN-04,vide reference no PSER: SCT: SRG-M1677: TCN-04 Date: 13-07-2015
	7.0 BHEL's TCN-05,vide reference no PSER: SCT: SRG-M1677: TCN-05 Date: 20-07-2015
	8.0 BHEL's TCN-06,vide reference no PSER: SCT: SRG-M1677: TCN-06 Date: 27-08-2015
	9.0 Other References, if any.

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

1. Referred tender shall have provision for Composite Contract also along with existing tender provision.
2. **In case the bidder prefers Composite Contract, they are to indicate their choice of quoting in Composite mode in their offer covering letter. In that case Price Schedule, Volume-IIIC (Rev-0) issued with this TCN shall be applicable & the same have to be submitted along with their offer. Price Schedule, Volume-IIIC (Rev-0) is attached. For such bidders (opting for Composite contract) Volume-IC & Volume-ID stands revised and combined Volume-IC & ID shall be applicable & the same have to be submitted along with their offer. i.e for bidders opting for Composite Contract the following revision is applicable:--**

Volume-IC&ID Combined	Special conditions of contract (supply & Service- Composite) - Applicable.
Volume-IIIC	Price schedule, Rev-0 (Absolute value) - Applicable.

For bidders not opting for Composite mode the following shall remain unchanged :--

Volume-IC	Special conditions of contract (supply) - Applicable.
Volume-ID	Special conditions of contract (service) - Applicable.
Volume-III	Price schedule, Rev-0 (Absolute value) - Applicable.

3. Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

4. All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

DGM(SCT)

Encl:

1.0 As Above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.	
Ref	1.0	Tender no PSER:SCT:SRG-M1677:15
	2.0	BHEL's NIT, vide reference no PSER:SCT:SRG-M1677: 4479 Date: 23-05-2015
	3.0	BHEL's TCN-01,vide reference no PSER: SCT: SRG-M1677: TCN-01 Date: 15-06-2015
	4.0	BHEL's TCN-02,vide reference no PSER: SCT: SRG-M1677: TCN-02 Date: 22-06-2015
	5.0	BHEL's TCN-03,vide reference no PSER: SCT: SRG-M1677: TCN-03 Date: 06-07-2015
	6.0	BHEL's TCN-04,vide reference no PSER: SCT: SRG-M1677: TCN-04 Date: 13-07-2015
	7.0	BHEL's TCN-05,vide reference no PSER: SCT: SRG-M1677: TCN-05 Date: 20-07-2015
	8.0	BHEL's TCN-06,vide reference no PSER: SCT: SRG-M1677: TCN-06 Date: 27-08-2015
	9.0	BHEL's TCN-07,vide reference no PSER: SCT: SRG-M1677: TCN-07 Date: 27-08-2015
	10.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

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

<p>पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय) POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091 फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691</p>

CLAUSE NO	DESCRIPTION
1.0	BROAD SCOPE OF WORK
2.0	SITE VISIT
3.0	FACILITIES TO BE PROVIDED BY BHEL / Customer
4.0	FACILITIES TO BE PROVIDED BY THE CONTRACTOR
5.0	PROJECT MANAGEMENT
6.0	CONSUMABLE
7.0	IMTE
8.0	GENERAL TECHNICAL REQUIREMENTS (CODES AND STANDARDS)
9.0	TEST CERTIFICATE FOR T&P
10.0	ISSUE OF T&Ps
11.0	SERVICES TO BE RENDERED BY THE BIDDER
12.0	MATERIAL DESPATCH CLEARANCE CERIFICATE (MDCC)
13.0	CONSIGNEE
14.0	DESPATCH
15.0	BANKER
16.0	BANK CHARGES
17.0	PAYING AUTHORITY
18.0	APPROVED MANUFACTURER/ SUB-VENDOR
19.0	INSPECTION & JOINT VERIFICATION (AT VENDOR'S WORKS)
20.0	INSPECTION & JOINT VERIFICATION (AT SITE)
21.0	QUALITY PLAN
22.0	QUALITY ASSURANCE PROGRAMME
23.0	GENERAL REQUIREMENTS - QUALITY ASSURANCE
24.0	QUALITY ASSURANCE DOCUMENTS
25.0	INSPECTION, TESTING AND INSPECTION CERTIFICATES
26.0	OPERATING MANUAL AND MAINTENANCE INSTRUCTIONS
27.0	SPARES
28.0	PROTECTION
29.0	ERECTION SERVICES
30.0	DEWATERING
31.0	AREA REQUIREMENT
32.0	CONSTRUCTION OF TEMPORARY OFFICE , STORES ETC.
33.0	RECONCILIATION OF MATERIALS
34.0	COMPLETION PERIOD
35.0	LIQUIDATED DAMAGES (LD)
36.0	TERMS OF PAYMENT
37.0	PRICE VARIATION CLAIM (PVC) / RATE REVISION
38.0	SECURITY DEPOSIT (SD) AND PERFORMANCE BOND (PB)
39.0	TRAINING OF OWNER'S / PURCHASER'S PERSONNEL
40.0	TAXES AND DUTIES
41.0	PAYING AUTHORITY
42.0	INSURANCE
43.0	WARRANTY & MAINTENANCE
44.0	WORK & SAFETY REGULATIONS
45.0	CONTRACT PRICE

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46.0	PROJECT SYNOPSIS AND GENERAL INFORMATION
47.0	OTHER TERMS

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This section of special conditions of contract (SCC) is applicable for both supply and services part of contract, ie complete design , engineering, manufacturing ,supply erection, testing, commissioning including any civil/ structural work to the completion of the package .

The conditions mentioned inscribed hereunder shall be read and construed along with general conditions of contract (GCC, Volume-IB) and in case of any conflict or inconsistency, the provision of the SCC, Volume-ID shall prevail.

CLAUSE NO	DESCRIPTION
1.0	NAME OF WORK
	The scope covers design, engineering, manufacturing, inspection, testing at manufacturer's/ vendor's/ sub-vendor's works proper packing, transportation to site including freight, delivery, supply of special tools & tackles for maintenance, start-up & commissioning spares, consumables, erection & commissioning, including PG test, handing over to customer as required, for total scope defined in technical specification along with other document of 'Elevator' Package for 2x660 MW units at Suratgarh, Rajasthan.
1.1	BROAD SCOPE OF WORK
1.1.1	The intent of this specification is to provide services for execution of the project according to most modern and proven techniques and codes. The omission of specific reference to any method, equipment or material necessary for the proper and efficient services towards installation of the plant shall not relieve the contractor of the responsibility of providing such services / facilities to complete the work or portion of work awarded to him. The quoted / accepted rates / price shall deem to be inclusive of all such contingencies.
1.1.2	The work to be carried out under scope of this specification covers complete work of design, engineering, manufacturing, inspection & testing at manufacturer works, painting at manufacturer's work, duly packed for transportation, delivery to site, unloading, storage, receipt at site, arranging their issue, transportation to site, temporary storage prior to erection, if required, cleaning, preservative painting, erection, alignment, welding, leveling, adjustment etc all pre-commissioning tests, start-up and trial run of individual equipment, final commissioning including supply of erection & commissioning spares as required till handing over, and trial run and handing over of units to BHEL/ their customer including performance & guarantee (PG) test of units, reconciliation of materials issued to contractor & returning unused materials to BHEL stores/ yard/ places designated by BHEL. The work shall conform to dimensions and tolerances given in various drawings and documents that will be provided during erection. If any portion of works is found to be defective in workmanship & not conforming to drawings/documents or other stipulations, the contractor shall dismantle and redo the work duly replacing the defective materials at their own cost, failing which recoveries, as determined by BHEL, shall be effected from contractor's bills.
1.1.3	It is not the intent of this specification to specify herein all the details of design, engineering, manufacturing , supply , erection & commissioning. However, the system shall conform in all respects to high standards of quality and workmanship for performing the required duties in a manner acceptable to purchaser who will interpret the meaning of drawings and specifications and shall be entitled to reject any work or material, which in his judgments is not in full accordance herewith.
1.1.4	The scope of work broadly covers as per specification under Volume-II & elsewhere in the document but shall not be limited to the following.
1.1.4.1	Detail design of all equipments & sub-system and work as per specification.
1.1.4.2	Preparing the manufacturing quality plan.
1.1.4.3	Complete manufacturing of all equipments/ sub-system including shop, field testing and assembly as per specification.
1.1.4.4	Providing special tools & tackles and services necessary for the satisfactory execution of the contract.

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1.1.4.5	Providing requisite sets (both hard & soft copy) of engineering drawings; RTF; data; operation & maintenance (O&M) manual; as-built drawing; plant handbook, storage, preservation & painting manual; erection manual etc as specified elsewhere in the tender
1.1.4.6	Arranging inspection of equipments and accessories etc. at manufacturer's/ sub vendor's premises
1.1.4.7	Packing & transportation of goods from manufacturer's works/ sub vendor's works.
1.1.4.8	Any equipments not specified here but required to make the equipments complete shall be under the scope of vendor.
1.1.4.9	Providing preventive routine maintenance schedule of the equipment/ sub-system.
1.1.4.10	Transportation of materials on FOR destination/ site basis & door delivery of materials at site.
1.1.4.11	Preparing schedules and furnishing progress report in requisite mode and number.
1.1.4.12	Provision as required of all types of labour, supervisors, engineers, watch and ward, tools & tackles, calibrated IMTEs (Inspection, measuring and testing equipment) as specified and otherwise required for the work, consumables for erection, testing and commissioning including material handling.
1.1.4.13	Proper out-turn as per BHEL plan and commitment.
1.1.4.14	Completion of work as per BHEL schedule.
1.1.4.15	Good quality and accurate workmanship for proper performance of the equipment.
1.1.4.16	Repair and rectification.
1.1.4.17	Preservation/ re-conservation of all components during storage/ erection/ commissioning till handing over.
1.1.5	The omission of specific reference to any fabrication / erection method, equipment or material necessary for proper and efficient working of the plant shall not relieve the tenderer of the responsibility of providing such facilities to complete the work at quoted rates. Any mismatch / defect found due to mistake in fabrication / erection shall have to be rectified by the vendor free of cost. Inspection by BHEL / Customer does not relieve vendor of his responsibility of executing quality erection.
1.1.6	All other points shall be as per the terms & conditions and specification along with aforesaid references together with amendments incorporated thereto.
2.0	SITE VISIT Contractor should visit site and acquire full knowledge & information about site conditions prevailing at site and in and around the plant premises together with all the statutory, obligatory, mandatory requirements of various authorities before submission of the bid.
3.0	FACILITIES TO BE PROVIDED BY BHEL / RRVUNL
3.1	LAND
3.1.1	Graded area shall be handed over to the vendor. Micro finishing has to be done by the vendor before start of any work.
3.1.2	The successful bidder shall furnish the estimated area showing layout plan/sketch required for the construction of his office, stores (covered, semi-covered and open), fabrication yard etc. The same will be reviewed by BHEL and allotted to the extent available / considered necessary, depending upon the area availability.
3.1.3	Minimum land will be provided free of cost for construction of temporary office, stores, fabrication area etc.
3.1.4	Only land if made available by Customer, will be provided for labour colony outside the project premises as per availability, on free of cost to the contractor to construct labour colony/hutment after obtaining approval of layout from BHEL.
3.1.5	The contractor will be responsible for handing back all lands, as handed over to him for his temporary use to BHEL, as per the instruction of BHEL Engineer.
3.2	WATER
3.2.1	BHEL will provide construction water free of cost at one point within project premise with in 500 metre of working area as soon as the system is ready.
3.2.2	BHEL will provide free of cost drinking water at one point within project premise with

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	in 500 metre of working area.as soon as the system is ready
3.2.3	Further distribution beyond above mentioned points to be arranged by the contractor at his own cost.
3.2.4	Contractor should arrange on their own drinking water in their labour colony.
3.2.5	Contractor will have to arrange for storage of water to meet the day to day requirement.
3.2.6	The availability of water (construction as well as drinking) is limited. Contractor shall ensure that no water is wasted. In this regard the contractor shall take all necessary measure towards preservation of water.
3.2.7	BHEL shall not be responsible for any inconvenience or delay caused due to any interruption of water supply and the contractor shall claim no compensation for delay in work for such interruption. Contractor may make standby arrangement for water for which no separate payment shall be made by BHEL.
3.3	ELECTRICITY
3.3.1	BHEL will provide construction power on free of charge basis at LT voltage level at one point within project premise with in 500 metre of working area. Further distribution (including laying of cables/ installation of DBs and maintenance of the same) beyond this point to be arranged by the contractor at his own cost. Any other voltage as required shall be arranged by the contractor from power supply as above. Contractor will have to provide necessary calibrated meters (tamper proof, suitably housed in a weather proof box with lock & key arrangement) at point of power supply along with calibration certificate from authorized/ accredited agency for working out power consumption at his own cost. In case of recalibration required for any reason necessary charges including replacement by calibrated meters is to be borne by the contractor. Supply of electricity shall be governed by Indian Electricity Act and Installation Rules and other Rules and Regulation as applicable. The contractor shall ensure usage of electricity in an efficient manner and the same may be audited by BHEL time to time. In case of any major deviation from normally accepted norms is observed, BHEL will reserve the right to impose penalty as deemed fit for such cases.
3.3.2	The bidder shall have to provide earth leakage breaker at each point wherever human operated electrical drives / T&Ps are deployed.
3.3.3	The power supply will be from the available grid. BHEL shall not be responsible for any inconvenience or delay caused due to any interruption of power supply and no compensation for delay in work can be claimed by the contractor due to such non-supply on the grounds of idle labour, machinery or any other grounds.
3.3.4	The contractor should ensure that the work in critical areas is not held up in the event of power breakdown (especially during slip-from concreting), and shall make all necessary arrangements for uninterrupted supply, at his cost. As a part of the bid, a specific proposal in this regard has to be submitted by the contractor. In the event of breakdown in the electric supply, if the progress of work is hampered, it will be the responsibility of the contractor to step up the progress of work after restoration of electric supply so that overall progress of work is not affected.
3.3.5	The contractor shall have to make arrangement at their own cost for illumination that will be required in the working area for execution of the work & safety of workmen.
3.3.6	Bidders have to make their make arrangement for electricity at their own cost for labour colony.
4.0	FACILITIES TO BE PROVIDED BY THE CONTRACTOR
4.1	TOOLS, TACKLES AND SCAFFOLDINGS The contractor shall provide all the construction equipments, tools, tackles & scaffoldings required for civil works, pre-assembly, erection, testing and commissioning of the equipments covered under the contract. He shall submit a list of all such materials to BHEL/ Customer before the commencement of pre-assembly at site. These tools & tackles shall not be removed from the site without the written permission of BHEL/Customer. The T&Ps to be arranged by the contractor shall be in proper working condition.
4.2	COMMUNICATION

	The contractor shall be responsible for arranging all communication facilities for himself at site. The contractor has to establish independent internet/e-mail facilities with mobile connection for all key site personnel and same shall have to be integrated with BHEL's voice/data network and database systems at site.
4.3	FIRST-AID Round the clock experienced paramedical personnel with first aid facility & one ambulance including driver, fuel etc., and shall be available at site, being provided by other agency. The above facilities will be shared by various BHEL contractors working at site on chargeable basis to the providing agency (actual cost distributed among the various vendors present at site availing the facility on a prorate basis). The subject facility will be strengthened as per the requirement during peak work progress at site, by other vendor. Individual vendor may co-ordinate with the providing agency in this regard.
4.4	CLEANLINESS
4.4.1	The contractor shall be responsible for keeping the entire area allotted to him clean and free from rubbish, debris etc. during the period of Contract. The Contractor shall employ enough number of special personnel to thoroughly clean his work-area at least once in a day. All such rubbish and scrap material shall be stacked or disposed in a place to be identified by BHEL/DVC. Materials and stores shall be so arranged to permit easy cleaning of the area. In areas where equipment might drip oil and cause damage to the floor surface, a suitable protective cover of a flame resistant, oil proof sheet shall be provided to protect the floor from such damage.
4.4.2	Similarly the labor colony, the offices and the residential areas of the contractor's employees and workmen shall be kept clean and neat to the entire satisfaction of BHEL/ Customer. Proper sanitary arrangements shall be provided by the Contractor, in the work-areas, office and residential areas of the Contractor.
4.4.3	Bidders to note that following.
4.4.3.1	No medical facility within / near the site shall be provided by BHEL.
4.4.3.2	No staff quarter is envisaged to be provided by BHEL. However in case same is available from customer and found spare-able , the same shall be provide on discretion of Customer/ BHEL site authorities on chargeable basis on back to back basis wih customer
4.4.3.3	All site execution individual approaches required for movement of cranes, trailers, trucks, dumpers, etc for the exclusive and individual approach of contractor shall be arranged by the contractor at his own cost.
4.4.3.4	The contractor shall solely be responsible for the safety, quality, & quantity of material after it is handed over and issued to contractor by the BHEL.
4.5	ILLUMINATION BHEL shall provide illumination on common erection approaches on a progressive basis; however the bidder will have to arrange sufficient illumination at their individual work areas that will be required for execution of work & safety of workmen, till BHEL's permanent lighting system/fixtures are put.
5.0	ENGINEERING SERVICES / PROJECT MANAGEMENT
5.1	As part of the overall project management activity, the vendor shall be responsible for proper engineering and coordination activities during various phases of execution of the contract. The vendor shall identify one Engineering Manager with whom BHEL will interact on all matters on coordination between BHEL and the contactors. The Engineering Manager shall be the single point contact person on behalf of the vendor and shall be responsible for all engineering co ordination. The bidder shall prepare detail schedule L1/ (L-2) and submit within 30-days of LOI for BHEL approval, as per MILESTONE completion schedule given in this document. This schedule must include all milestone and key activities for each package /subsystems/components in his scope of work in the areas of mobilization, engineering, procurement, manufacture, inspection, despatch, civil works / erection /commissioning / handing over.

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5.2	CONSTRUCTION SCHEDULE	
5.2.1	The contractor shall furnish an offer stage Master network / Bar Chart (L1 schedule) in accordance with the Project milestone schedule. The Contract Master Bar Chart will be negotiated with the successful Bidder.	
5.2.2	Based on L1 network, the vendor will prepare L2 network which will indicate exhaustive list of activities of engineering, procurement of raw materials, manufacturing, testing, procurement of sub-vendor items, and dispatch, erection, commissioning and handing over as per completion schedule given in this document. This network must include all milestone and key activities for each subsystems/ components in the areas of engineering (wherever applicable), procurement, manufacture (wherever applicable), dispatch, erection/ commissioning..	
5.2.3	Theses network must conform to the overall requirement of the project schedule as detailed below. The bidder should also ensure monitoring of these activities at least on weekly basis to start with and on daily basis whenever required by BHEL.	
5.2.3.1	PROJECT MILESTONES of UNIT#1	
	Sl no	Schedule date
	1.0	28/02/16
	2.0	31/05/16
	3.0	28/06/16
	4.0	28/09/16
5.2.3.2	Unit # 2 milestones will have a phase lag of three months with that of unit # 1.	
5.2.4	GENERAL	
5.2.4.1	The Contractor shall be responsible for planning and scheduling the work and reporting its progress in a manner, format and level of detail acceptable to BHEL. These plans shall be in accordance with the intermediate milestones and the completion dates as specified by and agreed in the Contract.	
5.2.4.2	The contractor shall be responsible for reporting progress to purchaser on a weekly and monthly basis. Progress reports shall be presented in a clear and logical fashion preferably through a software disc and in PDS format mutually agreed between BHEL and Contractor.	
	Above schedules are to be preferably made in PRIMAVERA, so that the same is compatible with BHEL's project management software.	
	Above schedules/ networks would be submitted to BHEL sequentially by the vendor within 15 days from date of LOI or otherwise specified by BHEL after placement o LOI and finalized within a month.	
5.2.5	DETAILED MASTER SCHEDULE (L2 NETWORK)	
5.2.5.1	Within thirty (30) days of the letter of intent date, contractor shall submit to purchaser the detailed Master Schedule (L2 schedule) along with summary network/ bar chart (L1 schedule) for approval. L2 schedule shall be the working level document demonstrating contractor's ability and methods of completing the work within the key milestones identified in the tender specification.	
5.2.5.2	The CMS shall be based on a computerized logic network. The level of detail shall be sufficient to break down the work scope into manageable and measurable activities acceptable to Purchaser. All activities shall have durations in days.	
5.2.5.3	The contractor shall provide a detailed activity bar chart based on the resource scheduled logic network. The bar chart shall contain activity descriptions, planned start and finish dates with the critical path activities clearly identified. The network / bar chart shall be updated weekly to indicate actual progress.	
5.2.5.4	The CMS shall include the required dates of all external input required to execute the plan. In addition the CMS shall clearly show all Sub-contract award dates and Sub-contractor activities right from preparation of specification & floating of tender.	
5.2.5.5	In addition contractor shall furnish percentage - based progress 'S' curve indicating,	

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	the required rate of progress necessary to complete the work according to the CMS. The 'S' curve shall be updated weekly to plot actual progress against planned.
5.3	PROGRESS MEASUREMENT AND MONITORING
5.3.1	The contractor shall measure progress of the work using its own methods and procedures preferably in prima-vera.
5.3.2	Weekly progress review meetings will be held at site during which actual progress during the week vis-à-vis scheduled program shall be discussed and action to be taken for achieving targets will be decided. For discussions, the contractor shall present program of subsequent week. The contractor shall constantly update/revise his work program to meet the overall requirement.
5.3.3	Periodic progress reviews on the entire activities of execution in respect of engineering, quality, procurement, supply and works in scope of bidder will be held once in a month at Kolkata/ site/ vendor's premise/ BHEL/ PEM, Noida or any other convenient premise. These meetings will be attended by reasonably higher officials of the vendor along with its sub-vendors & consultant as applicable and will be used as a forum for discussing all areas where progress needs to be speeded up. The contractor shall be further responsible for ensuring that suitable steps are taken to meet various targets decided in such meetings.
5.3.4	Contractor shall identify separate overall Project Manger, Construction Manger, Engineering Manger, Quality manger and selection of various Key personnel shall be subject to BHEL approval.
5.4	REPORTING
5.4.1	The contractor shall submit weekly progress reports to purchaser in the agreed formats submitted in adequate number of signed originals. The report shall include -
5.4.1.1	Brief narrative of work performed during the week.
5.4.1.2	CMS barchart showing progress at activity level.
5.4.1.3	Updated progress 'S' Curves showing actual progress.
5.4.1.4	Milestones achieved and new activities started.
5.4.1.5	Status of critical activities.
5.4.2	The contractor shall submit monthly progress reports to Purchaser in the agreed formats submitted in adequate number of signed originals. The report shall include the weekly report content and shall be supplemented with the following.
5.4.2.1	Engineering status.
5.4.2.2	Procurement status.
5.4.2.3	Manufacturing status.
5.4.2.4	Inspection & despatch status.
5.4.2.5	Material in transit.
5.4.2.6	erection & commissioning status.
5.4.2.7	Safety report.
5.4.2.8	Change order status.
5.4.2.9	Updated CMS(L1/L2 schedule)indicating status.
5.4.2.10	Executive summary, areas of concern etc.
5.4.2.11	Progress photographs.
5.4.3	Adequate numbers of color photographs, in triplicate, (matt paper, post card size for each area per month of the contract execution period), depicting progress of the work or damage to the machine parts, if any, as directed by BHEL site engineer is to be arranged by the successful bidder at his own cost.
5.4.4	The progress report shall be compiled in computer and is required to be furnished over "E Mail, in addition to hard copies and summary report shall be made 'Web enabled' in agreed format.
5.4.5	The vendor shall prepare and submit to BHEL monthly progress report indicating progress on key activities, management summary for critical activities, list of actions requiring attention of BHEL in floppies/ CD (compatible to BHEL software) and also in requisite number of hard copies. The input & output data for all such schedule shall be furnished to BHEL in a manner compatible with BHEL software available at site. A copy of the progress report must be submitted to Project Manager/ Kolkata

	latest by 7 th of every month covering the detailed progress achieved in the previous month.
5.4.6	The progress report shall indicate the progress achieved against planned with reasons indicating delays, if any, and shall give the remedial actions which the vendor intends to take to make good the slippage or lost time, so that further works again proceed as per the original program and the slippage's do not accumulate and effect the overall program.
5.4.7	Weekly progress review meetings will be held at site during which actual progress during the week vis-à-vis scheduled program shall be discussed or actions to be taken for achieving targets. The program of subsequent week shall also be presented by vendor for discussions. The vendor shall constantly update/ revise work program to meet the overall requirement.
5.4.8	Periodic progress reviews on the entire activities of execution in respect of supply and works in scope of bidder will be held once in a month at Kolkata/ site. These meetings will be attended by reasonably higher officials of the vendor and will be used as a forum for discussing all areas where progress needs to be speeded up. The vendor shall be further responsible for ensuring that suitable steps are taken to meet various targets decided upon such meetings.
5.4.9	During construction contractor shall take an average ten colour digital photograph / slides (indicating date) each month (not less than two per week) of the works during progress or damage to the machine parts, if any, as directed by BHEL site engineer. In case of failure in providing such photograph in each month, an amount of Rs. 1,000/- per month shall be deducted from contractor's RA bill.
5.4.10	Successful bidder has to provide electronic/ computerized storing and re-production/ printing/ plotting of various data, log sheets, protocols, measurements etc. These may be stored in virus free floppies (1.44 MB) & handed over to BHEL as per requirement.
5.5	COMPUTER INFRASTRUCTURE
5.5.1	The bidder will have to install adequate number of PCs (MULTIMEDIA PC WORK STATION)with CORE-i3 OR HIGHER 1.7 GHz OR ABOVE, 500GB HDD & 4GB RAM OF HP/HCL/LENOVO/DELL OR EQUIVALENT MAKE WITH WINDOW 7 Professional OR Window 8 O/S AND REQUIRED SOFTWARES LIKE MS OFFICE 2007 or 2010 PROFESSIONAL, AUTOCAD-2010, PDF viewer etc.) with 17 TFT Monitor, A4 Size LASERJET printers with Power backup at places, at his site office as per instruction of BHEL. The computerized system of vendor at site must have internet/ E-mail facilities and shall connect with BHEL data / voice data network. These computers/printers shall remain Contractor's property and they will be allowed to take out the same after completion of the works under this tender specification. The contractor shall provide data / information etc. in prescribed formats for periodical updating of the progress reports, material management repair, updating of network, invoicing etc. pertaining to the contractor's scope of work etc.
5.5.2	Successful bidder has to provide for electronic/ computerized storing and re-production/ printing/ plotting of various data, log sheets, protocols, measurements etc. These may be stored in virus free CD (as per requirement) and handed over to BHEL as per requirement.
6.0	CONSUMABLE
6.1	All consumables, like gas, electrodes, chemicals, lubricants, erection & commissioning spares etc required for the job shall be arranged by the contractor at his cost unless otherwise specifically mentioned in the contract.
6.2	All consumables to be used for the job shall be approved by BHEL prior to use.
6.3	In the event of failure of contractor to bring necessary and sufficient consumables, BHEL may arrange for the same at the risk and cost of the contractor. The entire cost towards this along-with overhead shall be paid by the contractor or deducted from the contractor's bills.

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7.0	IMTE The contractor shall ensure deployment of reliable and calibrated instrument, measuring and test equipments (IMTE). The IMTE shall have test/calibration certificate from authorised/Govt approved agencies. The contractor shall also keep provision of alternate arrangement for such IMTE so that the work does not suffer when a particular IMTE is sent for calibration. Re-testing/re-calibration shall also be arranged by the contractor at their own cost at regular interval during the period of use as advised by BHEL.
8.0	GENERAL TECHNICAL REQUIREMENTS (CODES AND STANDARDS)
8.1	Except where otherwise specified, the plant/equipment shall comply with the appropriate Indian Standard or an agreed internationally accepted Standard Specification as mentioned elsewhere in contract specifications, each incorporating the latest revisions at the time of tendering. Where no internationally accepted standard is applicable, the Bidder shall give all particulars and details as necessary; to enable BHEL to identify all of the plant/equipment in the same detail as would be possible had there been a Standard Specification.
8.2	Where the Bidder proposes alternative codes or standards he shall include in his tender one copy (in English) of each Standard Specification to which materials offered shall comply. In such case, the adopted alternative standard shall be equivalent or superior to the standards mentioned in the specification.
8.3	In the event of any conflict between the codes & standards referred above, and the requirements of this specification, the requirements which are more stringent shall govern.
8.4	Tools used during erection and commissioning shall not be accepted except with the specific approval of the Engineer.
8.5	Wherever specified or required the plant/ equipment shall conform to various statutory regulation such as Indian Boiler Regulation, Indian Electricity Rules, Indian Explosive Act, Factories Act etc. wherever required, obtaining approval for Plant / Equipment supplied under the specification from statutory authorities shall be the responsibility of the contractor.
9.0	TEST CERTIFICATE FOR T&P
9.1	All T&P, lifting tackles and pulling devices to be deployed by the contractor must bear valid / latest test certificates for their suitability, and the documents shall be preserved at site.
9.2	In case of expiry of validity of any such test certificate during construction, the contractor shall arrange for revalidation of the same well in advance, so that the construction activities do not suffer on account of non-availability of such Test certificates.
9.3	The contractor should also submit to BHEL for approval a list of T&Ps along with their fitness certificates. The tools & tackles shall not be removed from site without written permission of BHEL.
10.0	ISSUE OF T&Ps
10.1	Deployment of all T&Ps for this tender shall be contractor's responsibility. However, if BHEL issues any T&Ps, the same shall be on chargeable basis as per BHEL norms.
10.2	In the event of BHEL issued T&Ps, measuring instruments etc, contractor and BHEL shall maintain joint protocol about the condition of all T&P, instruments etc taken from BHEL's custody and return to BHEL after use. The contractor shall not use these equipment for purposes other than the scope of work given in this tender document.
10.3	It is the responsibility of contractor to keep these equipments always in working condition and ensure their safe return in working condition to BHEL's store subject to normal wear & tear.
10.4	After use of T&P items issued by BHEL the same shall be returned to BHEL in good working condition subject to normal wear & tear failing which recoveries at the book value of the item or the market rate prevailing at the time of returning the items, whichever is higher shall be made from the payments due to the contractor from

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	BHEL from this contract or from any other contract.
11.0	SERVICES TO BE RENDERED BY THE BIDDER
11.1	Services for design, engineering, manufacturing, inspection & testing at manufacturer works, painting at manufacturer's work, duly packed for transportation, delivery to site of various equipment and accessories under the contract shall include but not be limited to the following:
11.1.1	Services for complete engineering, coordination and project management as detailed elsewhere in this tender.
11.1.2	Services for shop test, quality assurance, as detailed elsewhere in this tender.
11.1.3	Supply of main equipment along with other items as per specification maintaining sequential dispatch.
11.1.4	Supply of first fill of lubricants for all equipment including second fill/ replenishment as necessary after commissioning till handing over of the plant/ equipment
11.1.5	Furnishing of all document, drawing, design basis, reports, instruction manuals, etc including "As Built Drawing".
11.1.6	Furnishing preservation schedule with all details of preservation method and preservatives required storing.
	DOCUMENTS
11.1.7	The contractor shall furnish 15 (fifteen) sets of approved drawing & documents 6 months prior to commissioning.
11.1.8	The contractor shall furnish 15 (fifteen) sets of "operation & maintenance manuals" 3 months prior to commissioning.
11.1.9	The contractor shall furnish 15 (fifteen) sets of "Plant Handbook covering design, performance data, P&IDs, SLDs, flow charts, sequence, protection & Interlock Scheme, alarm & trip valves, performance curves, GA & Layout drawings, important Do's and Donot's" etc 3 months prior to commissioning.
11.1.10	The contractor shall furnish 15 (fifteen) sets of as-built drawing along with 4 copies of CD ROM.
11.1.11	The contractor shall furnish 15 (fifteen) sets of "storage, preservation & painting manual".
11.2	Services for construction, fabrication, equipment erection, testing as well as trial run & commissioning of various equipment and accessories under the contract shall include but not be limited to the following:
11.2.1	Unloading of materials at railway station/ transporter's godown/ railway siding/ inside or outside the project area, transportation to contractor's stores, assessment of lost/ damaged items in transit/ storage erection & commissioning, arranging the Insurance claims and replacement of lost/ damaged items. The contractor shall be responsible for making good the losses/ damages for cases for which BHEL is unable to lodge Insurance claim. BHEL is unable to recover the full cost from Insurance company against any claims, the balance including deductible franchise wherever applicable, will be recovered from the Contractor.
11.2.2	Issuing materials from store/open yard as specified earlier from time to time for erection as per the construction programme. The contractor shall be the custodian of all the materials issued till the plant/equipment is officially taken over by the owner/ BHEL after complete erection any successful trial run & commissioning.
11.2.3	Transport of material to their respective places of erection and erection of the complete plant & equipment as supplied under this specification.
11.2.4	Trial run and commissioning of individual equipment/ sub-systems to the satisfaction of owner/ BHEL.
11.2.5	Deployment of all skilled and unskilled manpower required for erection, supervision of erection, watch & ward, commissioning and other services to be rendered under this specification.
11.2.6	Deployment of all erection tools & tackle, construction machinery, transportation vehicles and all other implements in adequate number and size, appropriate for the erection work to be handled under scope of this specification except otherwise specified.
11.2.7	Supply of all consumables, e.g. welding electrodes, cleaning agents, diesel oil,

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	lubricant etc as well as materials required for temporary supports, scaffolding etc as necessary for such erection work, unless specified other wise.
11.2.8	Providing support services for the contractor's erection staff e.g., Construction of site offices, temporary stores, residential accommodation and transport to work site for erection personnel, watch and ward for security and safety of the materials under the contractor's custody etc. as required.
11.2.9	Maintaining proper documentation of all the site activities undertaken by the Contractor as per the proforma mutually agreed with BHEL, Submitting monthly progress reports as also any such document as and when desired by BHEL/owner, taking approval of all statutory authorities, ie Boiler Inspector, Factory Inspector, Inspector of Explosives etc, as applicable for respective portions of work under the jurisdiction of such statutes of laws.
11.2.10	All the materials issued to the bidder by BHEL shall be reconciled by the bidder and the unused materials have to be returned back to BHEL stores/yard or any other place as specified by BHEL.
11.2.11	Supply and application of final paint on all the equipment to be erected is under the scope of the contractor.
11.2.12	After completion of the commissioning activity of equipment /systems, the contractor shall prepare the test Reports which shall include all the relevant information related to various commissioning checks, tests carried out, any deviations / commissioning noticed w.r.t. the intended design requirements, sequence of various commissioning activities as actually adopted vis-à-vis as recommended in the procedures, programme schedule achieved and any other such information as required. These Test Reports shall be submitted in requisite number of copies to BHEL/Owner /Contractor involved during the commissioning activities.
11.2.13	Any other service, although not specifically called for but required for a contract of the size and nature indicated in the specification.
12.0	MATERIAL DESPATCH CLEARANCE CERIFICATE (MDCC)
12.1	MDCC shall be issued by BHEL/ owner or their authorized representative prior to dispatch. In case the tests are not witnessed by BHEL/ owner's representative, the test certificates shall be submitted to owner through BHEL and MDCC will be issued thereafter.
12.2	Copy of MDCC and other dispatch document shall accompany with every dispatch, failing which the consignment shall not be allowed to enter the project premises.
13.0	CONSIGNEE
13.1	Consignee for material shall be intimated on a later date.
14.0	DESPATCH
14.1	All materials/ plants/ equipments shall be transported by road including ODC consignment. Dispatch shall only be made after inspection and issue of MDCC by BHEL/ owner. Advance information by fax/ courier of dispatch details shall be sent to Construction Manager, BHEL.
14.2	No consignment shall be dispatched on SELF basis. Material shall be dispatched prepaid, door delivery basis, else ensure the clearance and collection of goods from lorry go down and arrangement to transport the same to site store shall be in the scope of vendor.
14.3	Each package should carry the packing slip/ details of contents and should be put inside a metal enclosure, properly fixed to the packing from outside. The packing shall be such as to ensure prevention of damage, corrosion, pilferage, deterioration, loss in transit or storage and road-worthy.
14.4	The title of the ownership of goods to be supplied shall pass on to the owner on dispatch ex works/ FOR destination. However till the scope is completed in all respect and the plant/ equipment is taken over by the owner the goods shall remain with the custody of the bidder.
15.0	BANKER
	The address of banker for negotiation of documents is. State Bank of India, NS Road, Kolkata – 700 001

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	Or shall be as per intimation given by BHEL on a later date.
16.0	BANK CHARGES No interest, whatsoever, shall be payable by purchaser on the security deposit, any bank guarantee submitted or any amount due to the seller/ vendor.
17.0	PAYING AUTHORITY Construction Manager, BHEL site office, 2X660 MW RRVUNL Suratgarh Project, Rajasthan.
18.0	APPROVED MANUFACTURER/ SUB-VENDOR For bought out items, bidder have to adhere to the list of sub-vendors, indicated elsewhere in the technical specification, Volume-II and as approved by BHEL/ CUSTOMER.
19.0	INSPECTION & JOINT VERIFICATION (AT VENDOR'S WORKS) Prior to dispatch, the materials would be offered by the vendor for joint inspection at the vendor's works as detailed in this tender specification for which the vendor would serve the advance notice of 15 days for inspection call to BHEL.
20.0	INSPECTION & JOINT VERIFICATION (AT SITE) The vendor shall be intimated within 7 days from the date of receipt of each consignment at site to depute their representative for joint inspection and verification of the equipment/materials received at site. The vendor shall depute their representative within 7 days from receipt of such intimation failing which BHEL shall proceed with the inspection and verification of equipment/ materials and BHEL's decision in this regard shall be final and binding to the vendor.
21.0	QUALITY PLAN The bidder shall furnish the quality assurance plan which would be approved by BHEL/ owner.
22.0	QUALITY ASSURANCE PROGRAMME To ensure that the equipment & services under the scope of the contract whether manufactured/ performed at vendor's works or at his sub-vendor's premises or at any other place of work are in accordance with the specifications the vendor shall adopt suitable quality assurance programme to control activities as necessary. Such programme shall be outlined by the vendor and shall be finally accepted by BHEL/ owner/ authorised representative. A quality assurance programme of the vendor shall generally cover the following.
22.1	The organization structure and qualification data of key personnel for the management and implementation of the proposed quality assurance programme.
22.2	System for site erection control including process controls, fabrication and assembly controls.
22.3	The procedure for purchase of materials, parts, components and selection of sub-vendor's service including vendor analysis, source inspection, incoming raw material inspection, verification of materials purchased etc.
22.4	System for shop manufacturing and site erection control including process control, fabrication and assembly controls.
22.5	Control of non-conforming items and system for corrective actions.
22.6	Inspection and test procedure for all site related works.
22.7	Control of calibration and testing of measuring and testing equipment.
22.8	System for quality audit.
22.9	System for indication and appraisal of inspection status.
22.10	System for authorizing release of manufactured product to BHEL.
22.11	System for handling storage and delivery.
22.12	System for maintenance of records.
22.13	Furnishing of quality plan for manufacturing and field activities detailing out the specific quality control procedures adopted for controlling the quality characteristics relevant to each item of equipment/ component.

23.0	GENERAL REQUIREMENTS - QUALITY ASSURANCE
23.1	All materials, components and equipment covered under this specification shall be procured, manufactured, and tested at all the stages, as per a comprehensive Quality Assurance Program. An indicative program of inspection/ tests to be carried out by the vendor for some of the major items is given in the respective technical specification. This is however not intended to form a comprehensive program as it is the responsibility of the vendor to draw up and implement such program duly approved by BHEL The detailed quality plan for manufacturing should be drawn up by the bidder and will be submitted to BHEL for approval.
23.2	Manufacturing quality plans will detail out for all the equipment and components, various tests/ inspection to be carried out as per requirement of this specification and standards mentioned therein and the quality practices and procedures etc to be followed by vendor's quality control organization during various stages of materials procurement, manufacturing, assembly and final testing/ performance testing.
23.3	The bidder shall furnish the copies of the reference documents/ plant standards/ acceptance norms/ tests and inspection procedures etc as referred in quality plans along with quality plan. These quality plans and reference documents/ standards etc will be subject to BHEL/ owner's approval, without which manufacturing will not proceed. These approved documents will form part of the contract. In these approved quality plans BHEL/ authorised representative shall identify customer hold points, test/ checks which shall be carried out in presence of BHEL/ owner's representative and beyond which work will not proceed without consent of BHEL/ owner. All deviations to the specifications, approved quality plan and applicable standards must be documented and referred to BHEL for approval & disposition.
23.4	Quality audit/ approval of the results of tests and inspection will not prejudice the right of BHEL to reject equipment not giving the desired performance after erection and shall not in no way limit the liabilities and responsibilities of the vendor in earning satisfactory performance of equipment as per specification.
23.5	Repair/ rectification procedures to be adopted to make any job acceptable shall be subject to the approval of BHEL/ owner.
24.0	QUALITY ASSURANCE DOCUMENTS
24.1	The vendor shall be required to submit the following Quality Assurance Documents within 2 weeks after dispatch of the equipment.
24.1.1	Test report of components.
24.1.2	The inspection plan with verification, inspection plan check points, verification sketches, if used and methods used to verify that the inspection and testing points in the inspection plan were performed satisfactorily.
24.1.3	Non destructive examination results/ reports including radiography interpretation reports.
24.1.4	Welder identification list listing welder's and welding operator's qualification procedures and welding identification symbols.
24.1.5	Sketches and drawings used for indicating methods of traceability of the radiographs to the location of the equipment.
24.1.6	Stress relief time temperature charts.
24.1.7	Factory test results for testing required as per applicable codes and standards referred to in the specification.
24.1.8	Inspection report duly signed by QA personnel of BHEL and vendor for the agreed inspection hold points. During course of inspection the following will also be recorded.
24.1.8.1	When some important work repair work is involved to make the job acceptable.
24.1.8.2	The repair work remain part of the accepted product quality.
24.1.8.3	Letter of conformity certifying that that requirement is in compliance with finalised specification requirements.
25.0	INSPECTION, TESTING AND INSPECTION CERTIFICATES
25.1	The engineer, his duly authorised representative and/ or an outside inspection agency acting on behalf of BHEL/ owner shall have access at all reasonable times to inspect & examine the materials & workmanship of the works during its manufacture

	and if part of the works is being manufactured or assembled on other premises or works, the vendor shall obtain for the engineer and for their duly authorised representative permission to inspect as if the works were manufactured or assembled on vendor's own premises or works. Necessary arrangement for carrying out inspection including supply of labour, IMTEs, area illumination and scaffolding, if required will be vendor's responsibility and same has to be carried out within the quoted price.
25.2	To facilitate advance planning of inspection in addition to giving inspection notice the vendor shall furnish quarterly inspection program indicating schedule dates of inspection at customer hold point and final inspection stages. Updated quarterly inspection plans will be made for each 3 consecutive months and shall be furnished before beginning of each calendar month.
25.3	Before any plant/ equipment leaves the place of manufacture BHEL shall be given the option of witnessing inspections & tests for compliance with specifications & related standards. The vendor shall give the engineer/ inspector 15 days written notice of any material being ready for testing. Such test shall be to the vendor's account except for the expenses of the inspector. The engineer/ inspector, unless the inspection is waived will attend such tests within 15 days of the date on which the equipment is notified as being ready for test/ inspection, failing which the vendor may proceed with test which shall be deemed to have been made in the inspector's presence and he shall forthwith forward to the Inspector duly certified copies of test reports.
25.4	The engineer or inspector shall within 15 days from the date of inspection as defined herein give notice to the vendor of any objection wrt drawing/ equipment/ workmanship which in his opinion not in accordance with the specification/ contract. The vendor shall either make modification as may be necessary to meet the said objection or explain to the engineer/ inspector giving reasons that no modifications are necessary to comply with the contract.
25.5	When the factory tests have been completed at the vendor's or sub-vendor's works, the engineer or inspector shall issue a certificate to this effect within reasonable time after completion of tests but if the tests are not witnessed by the engineer or Inspector the certificate shall be issued within 15 days of the receipt of vendor's test certificate by the engineer inspector. Completion of these tests or the issue of the certificates shall not bind BHEL to accept the equipment should it on further tests after erection be found not to comply with the contract.
25.6	In all cases where the vendor provides the tests at the premises of the vendor or any sub-vendor, the vendor except where otherwise specified shall provide free of charge such items as labour, materials, electricity, fuel, water, stores, apparatus and instruments as may be reasonably demanded by the engineer/ inspector to carry out effectively such tests on the equipment in accordance with the contract and shall give facilities to the engineer/ inspector to accomplish testing.
26.0	OPERATING MANUAL AND MAINTENANCE INSTRUCTIONS
26.1	The vendor shall provide at least 6 months before the time of commissioning, all necessary operating & maintenance (O&M) manual. The O&M manual shall be submitted in the form of one reproducible original and 15 copies.
26.2	The information which shall be contained in loose stiff backed covers, shall include following in addition to whatever has been specified in Volume-II of this tender.
26.2.1	A complete inventory of all main items of plant/ equipment with identification details.
26.2.2	A complete set of all drawings, schematics, data sheets, schedules etc.
26.2.3	Service manuals for all plant and equipment giving full descriptions of the main items and auxiliary items.
26.2.4	A schedule of recommendations for routine maintenance of all equipment inspection point, information on detection, cause and rectification of troubles and faults.
26.2.5	A lubrication schedule with all necessary drawings.
26.2.6	Manufacturer's literature for all the self manufactured and bought out items.
26.3	Acceptance of O&M manual is subject to approval of BHEL.
27.0	SPARES

27.1	The scope of supply of any spares shall be governed by scope referred in price schedule, Volume-III.
27.2	However, as general guideline, following points shall be governing.
27.2.1	The purchaser may place orders for supply of spares on the contractor separately on receipt of detailed quotation categorizing the spares as (1) fast moving, (2) medium moving and (3) slow moving spare parts. The unit prices of such individual parts shall be valid till completion of guarantee period.
27.2.2	The contractor shall give warranty that before going out of production of the spare-parts, he will give advance notice to purchaser/ owner so that purchaser/ owner order his requirement of spares in one lot if he so desires. The contractor shall further give guarantee that if he goes out of production of spare parts, then he will make available blue prints/ drawings of spare parts and specifications of materials at no cost to the purchaser/ owner, if required, by purchaser/ owner to enable him to fabricate or procure spare parts from other sources.
27.2.3	Commissioning/ start up spares which are required at any time during the equipment installation till commercial operation of the unit are included in the contract & shall be handed over by the supplier to the purchaser.
27.2.4	Each sub-supplier for bought out items shall provide a full spare parts package showing information for each part, component, assembly and consumable item for each parent equipment item. The package shall also include detailed drawings together with complete spare parts lists giving sizes, materials rating etc.
27.2.5	Spare parts data package – each parent equipment item shall be listed by name, service, sub-suppliers sales order number, equipment plant tag no, manufacturer, model, size, serial no and contractors purchase order no. A full spare parts data package shall be submitted for each parent equipment item and shall clearly state which parent equipment it supports. Four hard as well as two soft copies of the complete spare parts data package for contractors manufactured items/ plant/ equipment as well as sub-suppliers bought out items shall be furnished to the purchaser at least 3 months before the commissioning of the unit.
28.0	PROTECTION
28.1	Equipment having anti-friction or sleeve bearings shall be protected by weather tight enclosures. Coated surfaces shall be protected against impact, abrasion, discoloration and other damages. Surfaces which are damaged shall be repainted.
28.2	Electrical equipment, controls and instrumentations shall be protected against moisture and water damages. All external gasket surfaces and flange faces, couplings, rotating equipment shafts, bearings and like items shall be thoroughly cleaned and coated with rust preventive compound and protected with suitable wood, metal or other substantial type covering to ensure their full protection. All exposed threaded parts shall be greased and protected with metallic or other substantial type protectors.
28.3	All piping, tubing and conduit connections on equipment and equipment openings shall be closed with rough usage covers or plugs. Female threaded openings shall be closed with rough usage covers or plugs or forged steel plugs. The closures shall be taped to seal the interior of the equipment. Open ends of piping, tubing and conduit shall be sealed and taped.
28.4	All erected equipment/ components to be preserved as per the preservation recommendation of BHEL. For this type of preservation, contractor shall engage an exclusive team of persons for meeting the continuous requirement. However, the required preservatives will be supplied to the contractor free of cost. All other consumables including wire brush, emery papers, painting brush etc to be supplied by the contractor within the quoted rate.
29.0	ERECTION SERVICES
29.1	As part of the overall project management activity, the contractor shall be responsible for proper co-ordination of erection activities during various phases of execution of the contract. The contractor shall identify a person designated as construction manager, with whom BHEL shall interact on matters related to execution of the contract. The construction manager shall be the single point

	contract person on behalf of the contractor. BHEL shall interact with the construction manager only on all matters on co-ordination between BHEL and the contractor.
29.2	The contractor shall confine all his field operations to those works which can be reformed without subjecting the equipment and materials to adverse effects, during inclement weather conditions, like monsoon, storms etc. and during other unfavorable construction conditions. No field activities shall be performed by the contractor under conditions which might adversely effect the quality and efficiency thereof, unless special precautions or measures are taken by the contractor in proper and satisfactory manner in the performance of such works and with the concurrence of the engineer. Such unfavorable construction conditions in no way relieve the contractor of his responsibility to perform the works as per the schedule.
29.3	The contractor shall supply all skilled workmen HP welders, gas cutters, electricians, riggers, sarangs, erectors, carpenters, fitters, masons, ladders, tin-smiths, instrument machines etc, in addition to other skilled, semi-skilled and unskilled workmen required for all the works of handling and transportation from site store to erection site, erection, testing and commissioning contemplated under this specification. Only fully trained and competent men with previous experience on the job shall be employed. They shall hold valid certificates wherever necessary. BHEL reserves the right to decide on the suitability of the workers and the other personnel who will be employed by the contractor. BHEL reserves the right to insist on removal of any employee of the contractor at any time, if they find him unsuitable and the contractor shall forthwith remove him.
29.4	The supervisory staff employed by the contractor shall be technically qualified and experienced in the area of work. They shall ensure proper out turn of work and discipline on the part of labour put on the job by the contractor and in general see that the works are carried out in a safe and proper manner and in coordination with other labour and staff employed directly by BHEL or other contractors of BHEL and BHEL's client/consultant.
29.5	The contractor shall also furnish daily labour report showing by classification the number of employees engaged in various categories of work a progress report of work as required by BHEL Engineer.
29.6	The work shall be executed under the usual conditions affecting major power plant construction and in conjunction with numerous other operations at site. The contractor and his personnel shall co-operate with other personnel, and other contractors, coordinating his work with others and proceed in a manner that shall not delay or hinder the progress of work as a whole.
29.7	The contractor's supervisory staff shall execute the work in the most substantial and workman like manner in the stipulated time. Accuracy of work and aesthetic finish are essential part of this contract. The contractor shall be responsible to ensure that assembly and workmanship conform to the dimensions and tolerance given in the drawing/ instruction given by BHEL Engineer from time to time.
29.8	It is the responsibility of the contractor to engage his workman in shifts or on overtime basis for achieving the target set by BHEL during erection, commissioning and testing period. Contractor's quoted rate shall include all these contingencies.
29.9	For rendering commissioning assistance during running of the unit till handing over of the set, a dedicated gang along with an exclusive supervisor need to be deployed by the vendor to attend the incidental works of commissioning as per the instruction of BHEL commissioning engineer. The gang need to be provided during night shift also whenever required by BHEL commissioning engineer. They shall be equipped with all necessary hand-tools to attend all the incidental works during commissioning.
30.0	DEWATERING
	Contractor shall ensure at all times that his work area & approach/access roads are free from accumulation of water, so that the materials are safe and the erection/progress schedule are not affected. No separate claim in this regard shall be admitted by BHEL. No separate payments for dewatering of subsoil, surface water or catchment water, if required, at any time during execution of the work

	including monsoon period shall be considered by BHEL.
31.0	AREA REQUIREMENT
	The contractor shall furnish the estimated area required for the construction of his office, stores, etc separately. The same will be reviewed by BHEL and allotted to the extent available/considered necessary, depending upon the area availability.
32.0	CONSTRUCTION OF TEMPORARY OFFICE , STORES ETC.
	The contractor shall arrange at his own cost the construction of his temporary office, stores, fabrication yards, labour colony etc and also the watch & ward of all above.
33.0	RECONCILIATION OF MATERIALS
33.1	Contractor shall submit a reconciliation statement of material after completion of job.
33.2	The contractor shall return the unused plant materials under their custody to BHEL's store/ yard at their own cost.
34.0	COMPLETION PERIOD
	The contractor shall execute the works in such manner that supply , erection, testing, commissioning including trial run and handing over of 'Elevator' package are completed within 12(Twelve) months from the date of LOI.
35.0	LIQUIDATED DAMAGES (LD)
	Subject to force majeure, if contractor fails to complete the job of the 'Elevator' package as per aforesaid completion period (as per clause no. 34 of Vol-1D), BHEL shall have the right to recover as liquidated damages (LD) a sum equivalent to 0.5 % of the contract price, including taxes, duties (service part of the price schedule) for delay of each week or part thereof. The liability for delay shall not in any case exceed 10 % (Ten percent) of the contract price, including taxes, duties (service part of the price schedule).
36.0	TERMS OF PAYMENT
36.1	The details of terms of payment based on contract price shall be as under.
36.1.1	56 % of contract price against dispatch document on prorata dispatch of material to site as per approved billing schedule. Documents (required sets) required, as applicable, for such payment are as follows -
36.1.1.1	Invoice/ excisable invoice in original.
36.1.1.2	LR/ RR (consignee copy).
36.1.1.3	Packing list.
36.1.1.4	BHEL/ customer MDCC enclosing QS note, inspection & test certificate, wherever applicable.
36.1.1.5	Copy of letter, addressed to insurance company intimating dispatch.
36.1.2	8 % of contract price against Material Receipt Certificate (MRC) issued after receipt of materials and its physical verification at site on pro-rata basis as per approved billing schedule. Collection of MRC from the site and its submission for claiming the payment shall be bidder's responsibility.
36.1.3	26 % of the contract price shall be released against completion of erection & commissioning
36.1.4	10 % of the contract price shall be released against trial run and test of the system , successful completion of the PG test/ demonstration test of the system/ package, as applicable; submission of final documents, eg as-built drawings, O&M manual etc and handing over of the system/ package to the owner. In case of delay in PG test/ demonstration test of the system/ package for the reasons not attributable to the bidder, this amount can be paid on submission of BG of equivalent amount, valid initially for 6 months & to be revalidated till completion of PG test/ demonstration test of the system/ package, provided other activities are completed and bidder shall engage required resources for PG test/ demonstration test as per schedule to be decided by BHEL/ customer. However, bidder has to fulfil all formalities for final billing/ contract

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	closing prior to drawing this payment.
36.2	Detail billing schedule shall be submitted by the successful vendor to BHEL for approval within 60-days of LOI.
36.3	BHEL, at discretion, may further split up the above percentages and effect payment to suit the site condition, cash flow requirement, according to the progress of work.
36.4	Payment shall be made by BHEL site office after 30 days of receipt of invoice subject to its completeness in all respects as per BHEL's procedure. All admissible recovered/ adjustments etc shall be made from the interim payable amount.
37.0	PRICE VARIATION CLAIM (PVC) / RATE REVISION
37.1	PRICE VARIATION CLAIM (PVC) Not applicable
37.2	RATE REVISION No rate revision is admissible.
38.0	SECURITY DEPOSIT (SD) AND PERFORMANCE BOND (PB)
38.1	Security deposit shall be as per respective clauses of GCC-IB for services contract.
38.2	Performance Bond, in the form of Bank Guarantee for an amount of 5 % of contract price for scope of services shall be submitted by the contractor within 30-days of issue of LOI. The bond shall be kept valid until six months after the expiry of warranty / guarantee period.
39.0	TRAINING OF OWNER'S / PURCHASER'S PERSONNEL The contractor shall undertake to train free of cost personnel selected and sent by the owner/ purchaser to the works of contractor. The period and nature of training and number of individual personnel shall be agreed upon mutually between the contractor and Owner/purchaser. These engineers shall be given special training in the shops where the equipment shall be manufactured either in India or abroad and where possible in any other Power Plant where manufactured equipment is under installation or test to enable them to become familiar with the equipment being supplied to the Purchaser. In the event of the Owner/purchaser for any reason failing to avail of the training facilities, purchaser shall not be entitled to any rebate whatsoever on this account.
40.0	TAXES AND DUTIES
40.1	<p>TDS under Income Tax, Rajasthan Value Added Tax Act etc, if any, shall be deducted at prevailing rates on Gross Invoice Value from the Running Bills unless Exemption Certificate from the Appropriate Authority / Authorities is furnished.</p> <p>All taxes (except Service Tax), Works Contract Tax under Rajasthan Value Added Tax Act, 2003, Excise Duty , Charges, ENTRY Tax, Royalties, Duties, Octroi, any State or Central Levy and other Taxes for materials obtained for the work and for the execution of the contract shall be borne by you and shall not be payable extra.</p> <p>You must be a registered dealer with the Rajasthan Value Added Tax Act, 2003, if not registered yet and a copy of the said registration certificate along with TIN Number must be provided to Site R.A.O.</p> <p>You are responsible to furnish all documentary evidences towards payment of Works Contract Tax as and when required by BHEL as well as " TAX INVOICE "</p> <p>WAY BILL:</p> <p>The Bidder has to make his own arrangement at his cost for completing the formalities, if required , with State V.A.T. Act Authorities , for bringing their materials , plants and machinery at Site for the execution of the Works under this Contract , Road Permit / Way Bill, shall be arranged by the Contractor for bringing their own tools and plants (Capital Goods) and BHEL will not supply any Road Permit/Way Bill for this purpose. The Contractor must be a Registered Dealer with the State VAT Act ,if not Registered yet and a copy of the said Registration</p>

Certificate along with TIN Number must be provided to Site R.A.O.

New taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties

SERVICE TAX

The subject service is “works contract” as per Sec. 65B (54) of the Finance Act, 1994. Service Tax as legally leviable & payable by you under the above provisions of Finance Act, 1994 shall be paid by BHEL .on production of GAR -7 CHALLAN .

In case Service Tax is payable by BHEL under reverse charge mechanism vide **Notification No. 30/2012-Service Tax dtd. 20-06-2012**, shall be paid separately .

The Bidder shall issue invoice complying with **Rule 4A of the Service Tax Rules 1994**. The invoice shall indicate the name, address and the registration number (PAN Based STC No.) of the Bidder; the name and address and the registration number(_AAACB4146PST005) of BHEL .; the description and value of taxable service provided; and the service tax payable thereon by the Bidder.

You shall furnish proof of Service Tax registration (**ST-2**) with Central Excise Division covering the Services . Registration should also bear endorsement for the premises from where the billing shall be done by you on BHEL for this Project .

BHEL will not be held to be responsible for non-compliance of various Service Tax Rules, being framed from time to time.

The value of service in this works contract shall be determined in terms of Rule 2A of Service Tax (Determination of Value) Rules, 2006. The bidder shall be liable to pay tax at the applicable rate on the service portion determined @ 40% of the total amount charged for the works contract as the subject job is original works

The term “**Total amount**” means the sum total of the gross amount charged for the works contract and the fair market value of all goods and services supplied in or in relation to the execution of the works contract, whether or not supplied under the same contract or any other contract, after deducting-

- (i) the amount charged for such goods or services, if any; and
- (ii) the value added tax or sales tax, if any, levied thereon:

Point of Taxation Rule, 2011 has come into operation from 01-04-2011. As per the rule Invoice must be generated within 30 days from the date of completion of service. In such case, the date of invoice will be the relevant date. However, if the invoice is not generated within 30 days as stated above, the date of completion of service shall be the relevant date.

Under Rajasthan Building and Other Construction Workers (Regulation of employment and conditions of service) (BOCW) Rule 2009 dated 30-04-2009, the contractor shall do necessary registration before commencement of work. The required forms may be collected from office of Dy. Labour Commissioner, Sriganganagar .

ENTRY TAX : In exercise of the powers conferred by sub-section (1) of section 3, of the Rajasthan Tax on Entry of Goods into Local Areas Act, 1999 (Act No. 13 of

	<p>1999) and vide Notification No. No.F.12(25)FD/Tax/11-150 dated 9TH , March , 2011.</p> <p>Entry Tax: Contractor has to get Entry Tax Registration Certificate from Local Sales Tax Authority and has to pay Entry Tax on the Import Value for bringing scheduled goods to local area of Suratgarh for use, sale & consumption for this Project / Purchase Order. Entry Tax paid Challan / Invoice Copy shall be made available to BHEL-Site Finance on a monthly basis.</p> <p>Entry tax shall not be reimbursed by BHEL on Purchase/Import Value of the Scheduled Goods as per Entry Tax Act, paid by the vendor purchased Inter-state or Intra-state but not for any materials purchased from Suratgarh Local Area .</p>
40.2	Other than above, no taxes & duties are payable by BHEL.
41.0	PAYING AUTHORITY
	<p>Construction manager BHEL site office 2x660 MW RRVUNL Stage V U#7&8 SCTPS Suratgarh <u>Rajasthan</u></p> <p>Any change in above shall be intimated later.</p>
42.0	INSURANCE
42.1	BHEL shall arrange comprehensive MCE (marine cum erection) Insurance Policy for total project supply & services including balance of plant package covering transit risks & loss, destruction or damage during handling at Site, Storage, civil works, erection, testing and commissioning up to trial operation completion of each unit including theft, sabotage, fire, lightning and other natural calamities.
42.2	Contractor shall timely intimate despatches to the underwriter. The name of the underwriter and Policy No. shall be intimated in due course of time.
42.3	Contractor shall report to BHEL in writing any damages to equipments/components on receipt, storing, and during withdrawal of the materials from stores, in transit to site and unloading at place of work and during erection and commissioning till trial operation completion including handing over. The above report shall be as prescribed by BHEL site management. Any consequential loss arising out of non-compliance of this stipulation will be borne by contractor.
42.4	The contractor will take necessary precautions/due care to protect the material at Project site, while in his custody from any damage/loss till the same is handed over to BHEL / customer at Project site. For lodging/processing of insurance claim the contractor will submit necessary documents. BHEL will reserve the right to recover the loss from the contractor as detailed below in case the damage/loss is due to negligence/carelessness on the part of the contractor. In case of theft of material under contractor's custody, the same shall be reported to police by the contractor immediately and copy of FIR and subsequently police investigation report shall be submitted to BHEL/customer for taking up with insurance. However this will not relieve the contractor of his contractual obligation for the materials in his custody.
42.5	In case the damage/loss/theft of materials are attributable to negligence/failure in discharging the duties and obligations of the contractor, the expenses incurred for repair/replacement of such components in excess of the amount realized from the underwriters, limited to Normal Excess (Deductible Franchise) shall be recovered from the contractor.
42.6	In case the claim is summarily rejected by the underwriters due to WILFUL NEGLIGENCE of the contractor, the entire cost of repair/replacement will be recovered from the contractor.
42.7	Other conditions of Insurance shall be as per relevant clause of GCC.
43.0	WARRANTY & MAINTENANCE
43.1	The Contractor shall warrant that the equipment will be new and in accordance with the Contract Documents and free from defects arising due to deficiencies in design

	and engineering and from defects in material and workmanship for a period of twelve (12) calendar months commencing immediately upon the satisfactory completion of the Trial Operations. The equipment shall operate satisfactorily and reliably and the performance and efficiency of the equipment (s) shall not be less than the respective guaranteed values.
43.2	The contractor shall be liable to repair or replace/ upgrade with specific consent of owner, any defective parts that may develop in the plant of his own manufacture or those his sub suppliers under the conditions provided for by the contract and under proper use and arising solely from faulty design, materials and/ or workmanship. Any defect removal at site by repair/ up-gradation of the installed equipment/ component /material will be permitted by the owner only when such repair/ up-gradation in the meantime, is not detrimental to the commercial use of the plant. All replaced defective parts shall be returned to the contractor unless otherwise arranged. No repairs or replacement shall normally be carried out by the engineer when the plant is under the supervision of the contractor's supervisory engineers.
43.3	The contractor's obligations against the above clause shall be limited to repairing or replacing with all incidental charges from site to the contractor's work and/or his sub-supplier's works and back to site. In case of defective parts not repairable at site but, essential in the meantime for the commercial operation of the equipment, the contractor and the purchaser/Owner shall mutually agree to a program of replacement or renewal which will minimize to the maximum extent interruption in the operation of the equipment.
43.4	The acceptance of the equipment by the Engineer shall in no way relieve the Contractor of his obligation under this clause.
43.5	In the event of any emergency where, in the judgment of the Engineer, delay would cause serious loss or damages, repairs or adjustment may be made by the Engineer or a third party chosen by the Engineer without advance notice to the Contractor and the cost of such work shall be paid by the Contractor. In the event such action is taken by the Engineer, the Contractor will be notified promptly and he shall assist wherever possible in making necessary corrections. This shall not relieve the Contractor's liability under the terms and conditions of the Contract.
43.6	If it becomes necessary for the Contractor to replace or renew any defective portions of the plant, the provision of this clause shall apply to portion of the plant so replaced or renewed until the expiration of six months from the date of such replacement or renewal or until the end of the warranty period as specified in clause whichever may be later. If any defects are not remedied within 30 days, the Engineer may proceed to do the work at the Contractor's risk and cost, but without prejudice to any other rights which BHEL may have against the Contractor in respect of such defects.
43.7	If the replacement or renewals are of such character as may affect the efficiency of the plant, the purchaser/Owner shall have the right to give to the Contractor within one month of such replacement or renewal, notice in writing that "acceptance tests on completion" be made, in which case such tests shall be carried out as per approved QAP/BHEL guidelines.
43.8	The repaired or new parts will be furnished and erected free of cost by the Contractor. If any repair is carried out on his behalf at the Site, the Contractor shall bear the cost of such repairs.
43.9	The cost of any special or general overhaul rendered necessary during the maintenance period due to defects in the plant or defective work carried out by the Contractor shall be borne by the Contractor.
43.10	In respect of goods supplied by Sub-Contractors to the Contractor where a longer guarantee (more than 12 months) is provided by such Sub-Contractors, the Owner shall be entitled to the benefit of such longer guarantee.
44.0	WORK & SAFETY REGULATIONS
44.1	The contractor shall ensure the safety of all workmen, materials and equipment either belonging to him or to others working at site. He shall observe safety rules and codes applied by the owner / BHEL at site without exception.
44.2	Passenger lift should have safety cage with multiple rope, i.e. with safety rope & limit

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	switch.	
44.3	Safety nets with hand railings must be provided on all both inside & outside hanging platform of slip-form equipment & hanging platform from brickwork.	
44.4	Emergency vehicle must be provided.	
44.5	Non-conformity of safety rules and safety appliances will be viewed seriously and BHEL has right to impose fines on the contractor on each incident/each non-conformity as per details given below:	
	Safety measure	Fine (Rs)
44.5.1	Not wearing safety helmet.	5/workmen
44.5.2	Not wearing safety belt.	10/workmen
44.5.3	Grinding without goggles.	25/workmen
44.5.4	Not using 24V supply for internal work.	500/case
44.5.5	Electrical plugs not used for hand machines.	100/case
44.5.6	Welding cables, electrical wires using insulated with proper/standard.	50/joint
44.5.7	Not removing scrap from platform.	Actual cost for removal plus 30 %
44.5.8	Gas cutting without taking proper precaution/not using sheet below per Incidence.	100/case
44.5.9	Electrical winches having no guards earthed properly etc.	500/case
44.5.10	Improper earthing of electrical T&P.	200/ equipment
44.5.11	Not protecting/locating the gas cylinder to avoid catching of fire.	100/cylinder
44.5.12	Not providing earth leakage circuit breaker as per direction of BHEL.	1000/point
44.6	Any other nonconformity noticed not listed above will also be fined. The decision of BHEL engineer is final on the above. The amount will be deducted from running bills of the contractor. The amount collected on the above will be utilised for giving award to the employee who could avoid accidents by following safety rules. Also, the amount will be spent for improving the safety at site.	
44.7	The contractor shall also be responsible for provision of all safety notices and safety equipment required both by the relevant legislation and BHEL/owner, as he may deem necessary.	
44.8	The contractor will notify well in advance to BHEL/owner of his intention to bring to the site any container filled with liquid or gaseous fuel or explosive or petroleum substance or such chemicals, which may involve hazards. BHEL/owner shall have the right to prescribe the conditions, under which such container is to be stored, handled and used during the performance of the works and the contractor shall strictly adhere to and comply with such instructions. BHEL/owner shall have the right at his sole discretion to inspect any such container or such construction plant/equipment for which material in the container is required to be used and if in his opinion, its use is not safe, he may forbid its use. BHEL/owner shall entertain no claim due to such prohibition and BHEL/owner shall not entertain any claim of the contractor towards additional safety provisions/conditions to be provided for/constructed as per the BHEL/owner's instructions.	
44.9	Further, any such decision of the BHEL/owner shall not, in any way, absolve the contractor of his responsibilities and in case, use of such a container or entry thereof into the Site area is forbidden by the BHEL/owner, the contractor shall use alternative methods with the approval of the BHEL/owner without any cost implication to owner or extension of work schedule.	
44.10	Where it is necessary to provide and/or store petroleum products or petroleum mixtures and explosives, the Contractor shall be responsible for carrying-out such provision and/or storage in accordance with the rules and regulations laid down in Petroleum Act 1934, Explosives Act, 1948, and Petroleum and Carbide of Calcium Manual published by the Chief Inspector of Explosives of India. All such storage shall have prior approval of the BHEL/owner. In case, any approvals are necessary	

	from the Chief Inspector (Explosives) or any statutory authorities, the Contractor shall be responsible for obtaining the same.
44.11	All equipment used in construction and erection by Contractor shall meet Indian/ International Standards and where such standards do not exist, the Contractor shall ensure these to be absolutely safe. All equipments shall be strictly operated and maintained by the Contractor in accordance with manufacturer's operation Manual and safety instructions and as per Guidelines/Rules of owner in this regard.
44.12	Periodical examinations and all tests for all lifting/ hoisting equipment & tackles shall be carried-out in accordance with the relevant provisions of Factories Act 1948, Indian Electricity Act 1910 and associated Laws/Rules in force from time to time. A register of such examinations and tests shall be properly maintained by the Contractor and will be promptly produced as and when desired by BHEL/owner or by the person authorized by him.
44.13	The contractor shall be fully responsible for the safe storage of his and his sub-contractor's radioactive sources in accordance with BARC/DAE (Bhabha Atomic Research Center/ Department of Atomic Energy, Govt. of India) Rules and other applicable provisions. All precautionary measures stipulated by BARC/DAE in connection with use, Contractor would take storage and handling of such material.
44.14	The contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need, as may be directed by BHEL/owner who will also have right to examine these safety equipments to determine their suitability, reliability, acceptability and adaptability.
44.15	Where explosives are to be used, the same shall be used under the direct control and supervision of an expert, experienced, qualified and competent person strictly in accordance with the Code of Practices/Rules framed under Indian Explosives Act pertaining to handling, storage and use of explosives.
44.16	The contractor shall provide safe working conditions to all workmen and employees at the Site including safe means of access, railings, stairs, ladders, scaffoldings etc. The scaffoldings shall be erected under the control & supervision of an experienced and competent person. For erection, the contractor only shall use good and standard quality of material.
44.17	The contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to BHEL/ owner or other Contractors under any circumstances, whatsoever, unless expressly permitted in writing by owner to handle such fuses, wiring or electrical equipment.
44.18	Before the contractor connects any electrical appliances to any plug or socket belonging to the other contractor or BHEL/ owner, he shall comply with following.
44.18.1	Satisfy the BHEL/owner that the appliance is in good working condition.
44.18.2	Inform the BHEL/owner of the maximum current rating, voltage and phases of the appliances.
44.18.3	Obtain permission of the BHEL/owner detailing the sockets to which the appliances may be connected.
44.19	BHEL/owner will not grant permission to connect until he is satisfied with following.
44.19.1	The appliance is in good condition and is fitted with suitable plug;
44.19.2	The appliance is fitted with a suitable cable having two earth conductors, one of which shall be an earthed metal sheath surrounding the cores.
44.20	No electric cable in use by the contractor/ BHEL/ owner will be disturbed without prior permission. No weight of any description will be imposed on any cable and no ladder or similar equipment will rest against or attached to it.
44.21	No repair work shall be carried out on any live equipment. BHEL/owner must declare the equipment safe and a permit to work shall be issued by the BHEL/owner before the Contractor carries out any repair work. While working on electric lines/equipments whether live or dead, suitable type and sufficient quantity of tools will have to be provided by Contractor to electricians/workmen/officers.
44.22	The contractors shall employ necessary number of qualified, full time Electricians/ Electrical Supervisors to maintain his temporary electrical installations.
44.23	The contractor shall employ a qualified Safety Officer under approval of BHEL site-

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	in-charge at site before submission of first RA bill to supervise day to day safety aspects of the equipments and workmen, who will co- ordinate with BHEL/ owner Safety Officer. In case of work being carried out through sub-c ontractors, the sub-contractor's workmen/ employees will also be considered as the contractor's employees/ workmen for the above purpose.
44.24	The name and address of such Safety Officer of contractor will be promptly informed in writing to BHEL/ owner with a copy to Safety Officer-In charge before he starts work or immediately after any change of the incumbent is made during currency of the contract.
44.25	In case any accident occurs during the construction/ erection or other associated activities undertaken by the contractor thereby causing any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the contractor to promptly inform the same to BHEL/ owner in prescribed form and also to all the authorities envisaged under the applicable laws.
44.26	BHEL/ owner shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/or property, and/or equipments. In such cases, the contractor shall be informed in writing about the nature of hazards and possible injury/ accident and he shall comply to remove shortcomings promptly.
44.27	The contractor shall not be entitled for any damages/ compensation for stoppage of work due to safety reasons above and the period of such stoppage of work will not be taken as an extension of time for completion of the facilities and will not be the ground for waiver of levy of penalty.
44.28	The contractor shall follow and comply with all Safety Rules of BHEL/ owner, relevant provisions of applicable laws pertaining to the safety of workmen, employees plant and equipment as may be prescribed from time to time without any demur, protest or contest or reservation. In case of any inconformity between statutory requirement and owner's Safety Rules of BHEL/ owner referred above, the later shall be binding on contractor unless statutory provisions are more stringent.
44.29	If the contractor fails in providing safe working environment as per the owner's Safety Rules or continues the work even after being instructed to stop work by BHEL/ owner as provided above, the contractor shall promptly pay to BHEL/ owner, on demand by the BHEL/owner compensation at the rate of Rs 5,000.00 per day or part thereof till the instructions are complied with and so certified by BHEL/ owner. However, in case of accident taking place-causing injury, to any individual, the provisions contained in relevant paragraph shall also apply in addition to compensation mentioned in this paragraph.
44.30	If the contractor does not take all safety precautions and/or fails to comply with the Safety Rules as prescribed by owner or under the applicable law for the safety of the equipment & plant and for the safety of personnel and the contractor does not prevent hazardous conditions which cause injury to his own employees or employees of other contractors, or the owner employees or any other person who are at Site or adjacent thereto, the contractor shall be responsible for payment of compensation to owner as per the following schedule:
44.30.1	Fatal injury or accident causing death - Rs 1,00,000/person.
44.30.2	Major injuries or accident causing 25% or more permanent disablement to workmen or employees – Rs 20,000/person.
44.31	Permanent disablement shall have same meaning as indicated in Workmen's Compensation Act. The compensation mentioned above shall be in addition to the compensation payable to the workmen/employees under the relevant provisions of the Workmen's Compensation Act and rules framed there under or any other applicable laws as applicable from time to time. In case the BHEL/ owner is made to pay such Compensation then the contractor is liable to reimburse BHEL/ owner such amount in addition to the compensation indicated above.

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44.32	These insurance covers have to be taken prior to start of his work at the subject project and he shall make available the Policy to BHEL Construction Manager for necessary verification before commencement of work. However, irrespective of such verification/ acceptance, the sole responsibility to maintain adequate insurance cover for his workmen, T&P, assets etc. at all times during the period of contract shall lie with the contractor. Regarding the aforesaid insurance cover, the contractor shall directly deal with the Insurance Company for all matters regarding the insurance in his scope.
45.0	CONTRACT PRICE
45.1	Bidder shall quote their rates/ prices strictly as per Volume-III, Price Schedule (latest revision) only.
46.0	PROJECT SYNOPSIS AND GENERAL INFORMATION
46.1	DETAILS OF PROPOSED STAGE/ UNITS
	Name of the Owner : RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED (RVUNL) Address : 2 X 660 MW Super Thermal –TPS, Suratgarh, District-Sriganganagar, Rajasthan, India New Installation : 2 x 660 MW, Stage V, UNIT#7&8 Nearest Railway Station : Suratgarh Junction Railway Station Nearest City/Town : Suratgarh- 15 Km. Sri Ganga Nagar- 100 Km Maximum Temperature : 50 deg. C. Minimum Temperature : (-) 2.8 deg. C.
47.0	OTHER TERMS
	All other term & conditions of this specification shall be governed by the pertinent provisions of GCC, Volume-IB as applicable.

VOLUME-IIIIC PRICE SCHEDULE, REV-0	
Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.	
Tender no. PSER:SCT:SRG-M1677:15	
SL	PREAMBLE
1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with Volume-IB, ID, IE , Volume – IF and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where in this document.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclaoesd with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment, strengthening of roads/culverts/bridges etc. including arranging all clearances etc. required for carrying out different activities & tests, materials, levies, taxes(except service tax), transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the complete tender document and this schedule.
5	The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation remains, within thirty percent ($\pm 15\%$) of the awarded price as per LOI .
6	Prior written approval of BHEL shall be sought by the contractor in case quantity variation of any item crosses +50% (plus fifty percent) limit during execution and approval to be obtained before execution of further quantity for this item.
7	In case Sealed /Paper Price Bids are opened for finalisation of the tender, for any Item Rate/BOQ based contract, possibility of variation of quantity/ addition/deletion of items can not be ruled out. Under such circumstances, after execution of work, if it is observed that standing as L-1 is changed based on actual quantity executed, the bidder shall give suitable rebate to maintain your standing as L-1. Since this aspect can be assessed at the end of execution, necessary adjustment will be effected at the end of execution in final bill.This condition shall not be applicable where the tender is finalised through Reverse Auction.
8	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
9	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.However, if separate rate for such item is available in the rate schedule, the same shall be considered.

VOLUME-IIIIC PRICE SCHEDULE, REV-0	
Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.	
Tender no. PSER:SCT:SRG-M1677:15	
10	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language.
11	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.
12	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
13	No splitting of the job is envisaged. Decision of BHEL in this regard shall be final and binding to the bidders.
14	Bidders are not allowed to alter the Price Schedule format including item description, quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them. BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/ altered by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection.
15	Bidders to note that for Civil &/Structural packages, against a particular item against a ST No. appearing in more than one schedule of the BOQ, same rate must be quoted in all schedules for that particular items with same descriptions. If by error, different rates are quoted in different schedules for same ST No. (i.e. item with same description), then the higher of the rates shall be considered for evaluation but awarding shall be done with the lower rate, if the bidder becomes L-1."
16	For Lumpsum Service Contract : The items/components indicated in the tender is indicative and may vary to any extent. No compensation shall be payable in case of any variation in the items/components listed in the bill of quantities if the executed weight remains within the variation limit. However, in case of deletion of any item or addition of new items over and above the items listed or variation of existing quantity beyond variation limit specified, adjustment (i.e. Payment or recovery as the case may be) shall be done on pro-rata basis based on the Rate per MT worked out from the quoted lump-sum Price and the total weight of components listed /indicated in price schedule plus 15% weight variation limit.
17	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
18	In case of tender for Civil and/or Structural works, if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/DSR schedule as prescribed in the tender/BOQ cum Rate Schedule.
19	No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor.
20	Size and weights of various items are mentioned in the attached BOQ cum rate/price schedule for reference purpose only & these shall not be taken into consideration for quoting/calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items.
21	Bidder's GRAND Total price will be shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight charges against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoted price against each item keeping the total quoted price unaltered.

**VOLUME-IIIC
PRICE SCHEDULE, REV-0**

Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.

Tender no. PSER:SCT:SRG-M1677:15

SCH-1 - MAIN PRICE

SL NO	DESCRIPTION OF ITEM	TOTAL BASIC PRICE (Rs)	TOTAL FREIGHT (Rs)	ALL INCLUSIVE TOTAL F.O.R. PRICE (Rs) AND IN WORDS
1.0	Total lumpsum firm price inclusive of all taxes duties and other levies as applicable for design, engineering, manufacturing, inspection and testing, painting, supply of mechanical, electrical equipments and control system & equipments with delivery duly packed at project site including freight, unloading, storage and handling at site, scaffolding, erection and commissioning, trial run at site, design & construction of minor structural and civil work at site, in line with technical specification for TG building, one (1) no. 680 Kg capacity passenger elevator (conventional type) with speed 1 m/s, Seven(7) nos. of landings including ground and 28.0 M (last landing elevation) Total travel, Service building, one (1) no. 1360 Kg capacity passenger cum goods elevator (conventional type) with speed 0.75 m/s, Five(5) nos. of landings including ground and 17.0 M (last landing elevation) Total travel, and Administrative building one (1) no. 884 Kg capacity passenger elevator (conventional type) with speed 1 m/s, three (3) nos. of landings including ground and 9.0 M (last landing elevation) Total travel, complete with all accessories, Erection and commissioning spares and one set of Maintenance Tools and Tackles for the total scope defined for 2x660 MW SURATGARH STPS. FOR ELEVATOR package as per technical specification PE-TS-392-502-A001 taking into account all clarifications, confirmations and agreements till date.			
2.0	Total lumpsum price for supply for design, engineering, manufacturing, inspection and testing, painting, supply of handing over to customer, for scope defined in the technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for MANDATORY SPARES for 2x660 MW Super Critical TPS, Stage V, for ELEVATOR package as per technical specification PE-TS-392-502-A001.			

NOTE:

1.0	Bidder to note that total price indicated above at 1.0 shall be considered for evaluation and hence should be complete in all respect for the full scope defined and considering all terms and conditions.
2.0	Any item not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.
3.0	Total erection & commissioning charges should be minimum 20% of the total quoted package price (excluding mandatory spares), failing which the break-up of prices shall be adjusted accordingly by BHEL for ordering.
4.0	Bidder to furnish break-up of total price (Sl. No - 1.0 above of this) into other schedules in the following manner.
4.1	SCH-1 - MAIN PRICE BREAK-UP
4.2	SCH-2 - SUPPLY PRICE BREAK-UP
4.3	SCH-3 - MANDATORY SPARE (One set each for TG, Service & Administrative building elevator)
5.0	Bidder shall attach separate sheets to furnish item-wise price break-up wherever specified in various schedules of this volume.
6.0	In case, price indicated above does not match with the total of item wise break-up given at SCH-3 & 4, the highest price so calculated shall be considered for evaluation but in case of order, the same shall be placed at the lowest price.
7.0	If freight component is not specifically indicated, 2% of total amount will be considered as freight component against each item for further processing.
8.0	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
9.0	Price format shall not be changed by bidder in any case, since it may lead to cancellation of bidder's offer.

VOLUME-IIIC					
PRICE SCHEDULE, REV-0					
Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.					
Tender no. PSER:SCT:SRG-M1677:15					
SCH-3 - SUPPLY PRICE BREAK-UP					
SL NO	DESCRIPTION OF ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUOTED PRICE (Rs)		
			TOTAL BASIC PRICE	TOTAL FREIGHT	TOTAL PRICE
BREAK-UP OF SUPPLY PRICE AT SL NO 1.1 OF SCH-2					
1.1.1	Total lumpsum firm price inclusive of all taxes duties and other levies as applicable for design, engineering, manufacturing, inspection and testing, painting, supply of mechanical, electrical equipments and control system & equipments with delivery duly packed at project site including freight, unloading, storage and handling at site, scaffolding , erection and commissioning, trial run at site, design & construction of minor structural and civil work at site, in line with technical specification for TG building, one (1) no. 680 Kg capacity passenger elevator (conventional type) with speed 1 m/s, Seven (7) nos. of landings including ground and 28.0 M (last landing elevation) Total travel, complete with all accessories for the total scope defined as per technical specification PE-TS-392-502-A001, including E&C spares taking into account all clarifications, confirmations and agreements till date. .	30%			
1.1.2	Total lumpsum firm price inclusive of all taxes duties and other levies as applicable for design, engineering, manufacturing, inspection and testing, painting, supply of mechanical, electrical equipments and control system & equipments with delivery duly packed at project site including freight, unloading, storage and handling at site, scaffolding , erection and commissioning, trial run at site, design & construction of minor structural and civil work at site, in line with technical specification for Service building, one (1) no. 1360 Kg capacity passenger cum goods elevator (conventional type) with speed 0.75 m/s, Five(5) nos. of landings including ground and 17.0 M (last landing elevation) Total travel, complete with all accessories for the total scope defined as per technical specification PE-TS-392-502-A001, including E&C spares taking into account all clarifications, confirmations and agreements till date.	39%			

VOLUME-IIIIC					
PRICE SCHEDULE, REV-0					
Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.					
Tender no. PSER:SCT:SRG-M1677:15					
SCH-3 - SUPPLY PRICE BREAK-UP					
SL NO	DESCRIPTION OF ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUOTED PRICE (Rs)		
			TOTAL BASIC PRICE	TOTAL FREIGHT	TOTAL PRICE
1.1.3	Total lumpsum firm price inclusive of all taxes duties and other levies as applicable for design, engineering, manufacturing, inspection and testing, painting, supply of mechanical, electrical equipments and control system & equipments with delivery duly packed at project site including freight, unloading, storage and handling at site, scaffolding, erection and commissioning, trial run at site, design & construction of minor structural and civil work at site, in line with technical specification for Administrative building one (1) no. 884 Kg capacity passenger elevator (conventional type) with speed 1 m/s, three (3) nos. of landings including ground and 9.0 M (last landing elevation) Total travel, complete with all accessories for the total scope defined as per technical specification PE-TS-392-502-A001, including E&C spares taking into account all clarifications, confirmations and agreements till date.	29%			
1.1.4	Total lumpsum firm price inclusive of all taxes duties and other levies as applicable for supply/delivery duly packed at project site including freight, unloading, storage and handling at site, and handing over to the customer in line with drawings/ documents approved by BHEL/Customer for one set of Maintenance tools and Tackles common for all elevators. (as per Annexure - IV, Bidder to indicate the applicable Tools & tackle)	1%			
1.1.5	Lumpsum firm prices of any other item required to complete the package	1%			
TOTAL PRICE FOR SUPPLY					

VOLUME-IIIIC					
PRICE SCHEDULE, REV-0					
Design, Engineering, Manufacturing, Supply / Delivery, Erection, Commissioning, Trial run, Handing over to customer etc. of 'Elevator' Package for RRVUNL, 2x660 MW, Stage-V, Unit#7&8 Suratgarh Super Critical TPS, Rajasthan.					
Tender no. PSER:SCT:SRG-M1677:15					
SCH-3 - SUPPLY PRICE BREAK-UP					
SL NO	DESCRIPTION OF ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUOTED PRICE (Rs)		
			TOTAL BASIC PRICE	TOTAL FREIGHT	TOTAL PRICE
2	Unit rates for scope adjustment (both for (+) ve and (-) Ve variation)				
2.1	Additional/ takeout price for supply and Erection & commissioning of one landing inclusive of all taxes, duties and other levies as applicable				
2.2	Additional/takeout price for per meter increase/decrease in total rise/travel inclusive of all taxes, duties and other levies as applicable				

NOTES	1) Any variation in total travel length and no of landing due to change in travel length and no of landing will be adjusted based on unit rates arrived from 2.1 and 2.2 above.
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VOLUME-IIIIC						
PRICE SCHEDULE, REV-0						
Design, engineering, supply, erection & commissioning of Elevator Package for 2x660 MW Super Critical TPS, Stage-V,						
Tender no. PSER:SCT:SRG-M1677:15						
SCH- 5 List of Mandatory spares One set for TG building						
SL NO	DESCRIPTION OF ITEM	QUANTITY		QUOTED PRICE (Rs)		
				TOTAL BASIC PRICE	TOTAL FREIGHT	TOTAL PRICE
	BREAK-IP OF 2.0 OF SCH-1					
1.0	Mandatory spares -One set for TG building					
1.1	Brake coil	1	No.			
1.2	Hoist way limit switch	2	Nos.			
1.3	Down /up limit switch	2	Nos.			
1.4	AC contactors	2	Nos.			
1.5	Fuse of each rating	5	Nos.			
1.6	Switch of each type	1	No.			
1.7	Control push button	3	Nos.			
1.8	Auxiliary Relays of each type	1	No.			
1.9	Bearing of each type and size of motors	1	No.			
1.10	Electronic cards of each type / function.	1	No.			
2.0	Mandatory spares One set for Service building					
2.1	Brake coil	1	No.			
2.2	Hoist way limit switch	2	Nos.			

VOLUME-IIIIC						
PRICE SCHEDULE, REV-0						
Design, engineering, supply, erection & commissioning of Elevator Package for 2x660 MW Super Critical TPS, Stage-V,						
Tender no. PSER:SCT:SRG-M1677:15						
SCH- 5 List of Mandatory spares One set for TG building						
SL NO	DESCRIPTION OF ITEM	QUANTITY		QUOTED PRICE (Rs)		
				TOTAL BASIC PRICE	TOTAL FREIGHT	TOTAL PRICE
2.3	Down /up limit switch	2	Nos.			
2.4	AC contactors	2	Nos.			
2.5	Fuse of each rating	5	Nos.			
2.6	Switch of each type	1	No.			
2.7	Control push button	3	Nos.			
2.8	Auxiliary Relays of each type	1	No.			
2.9	Bearing of each type and size of motors	1	No.			
2.10	Electronic cards of each type / function.	1	No.			
3.0	Mandatory spares One set for Administrative building elevator					
3.1	Brake coil	1	No.			
3.2	Hoist way limit switch	2	Nos.			
3.3	Down /up limit switch	2	Nos.			
3.4	AC contactors	2	Nos.			
3.5	Fuse of each rating	5	Nos.			
3.6	Switch of each type	1	No.			

VOLUME-IIIIC						
PRICE SCHEDULE, REV-0						
Design, engineering, supply, erection & commissioning of Elevator Package for 2x660 MW Super Critical TPS, Stage-V,						
Tender no. PSER:SCT:SRG-M1677:15						
SCH- 5 List of Mandatory spares One set for TG building						
SL NO	DESCRIPTION OF ITEM	QUANTITY		QUOTED PRICE (Rs)		
				TOTAL BASIC PRICE	TOTAL FREIGHT	TOTAL PRICE
3.7	Control push button	3	Nos.			
3.8	Auxiliary Relays of each type	1	No.			
3.9	Bearing of each type and size of motors	1	No.			
3.10	Electronic cards of each type / function.	1	No.			
Grand Total price of Mandatory Spares						

NOTE:

1	Unless stated otherwise, a 'set' means item or sub-items required for each type/ size, range of assembly/ sub- assembly required for complete replacement in one equipment system; it is further intended that the assembly/ sub-assembly which have different orientation (like left hand or right hand, top or bottom), different direction of rotation or mirror image positioning or any other reasons which result in marinating two different sets of spares to be used for subject assembly/ sub
2	Wherever quantity has been specified as percentage(%), the quantity of mandatory spares to be provided by the vendor shall be the specified percentage (%) of total population required to meet the specification requirements. In case the quantity of mandatory spares so calculated happens to be in fraction, the same shall be rounded off to next higher whole number.
3	Wherever the quantities have been indicated for each type, size, thickness, material, radius , range etc, these shall cover all the items supplied and installed and the breakup of these shall be furnished by the vendor during detail engineering.
4	In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to the offered design with quantities genaerally in line with the approach followed in the above list.
5	Wherever bidder has indicated an item as not applicable, the same will have to be supplied free of cost, incase it is found applicable during detail engineering.

ANNEXURE-IV							
VOLUME-IIIIC PRICE SCHEDULE, REV-0							
Design, engineering, supply, erection & commissioning of Elevator Package for 2x660 MW Super Critical TPS							
Tender no. PSER:SCT:SRG-M1677:15							
Name of the project				2x660 MW SURATGARH STPS			
List of Maintenance Tools & Tackles for Elevator package							
Sl.no	Description	Qty.	Unit	Unit Ex-works price	Total ex-works price	FREIGHT	FOR SITE
1	2	3	4	5	6	9	10
1	Spanner of all sizes required for maintenence						
2	Adjustable Spanner						
3	Allen Key set all sizes required for maintenence						
4	Screw driver set						
5	Cutting plier						
6	Grease gun						
7	Nose plier						
8	Grip plier						
9	Hook spanner						
10	Box spanner						
11	Oil can						
12	Measurement Taps						
13	Paint brush 1/4,1/2,3/4 inch						
14	Line tester						
15	Multimeter						
16	Soldering iron						
17	Torch Light						
18	Knife cutter						
19	Steel rule						
20	Wire Striper						
21	Tube Spanner Combination						
22	Hammer 1/2 Kg						
23	Dial rench						
24	Other tools if any (Please specify)						
A	Total price for maintenace tools & tackles						