



ISO 9001, ISO 14001,
OHSAS 18001 & SA 8000
certified company
SubContract Deptt.

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CORRIGENDUM – 06 Dated 16/08/2018

Sub: Tender for the work of “CIVIL WORKS COMPRISING OF SUPER STRUCTURE WORKS AND ARCHITECTURAL WORKS OF GTG HALL, STG HALL, SWGR CUM CELLAR BUILDING, SWAS ROOM, IA SHED, PIPE RACKS, DEARATOR STRUCTURE, ACC STRUCTURE ETC. COMPLETE CIVIL AND FOUNDATION WORKS OF MINOR RCC BUILDING ETC INCLUDING BOP CIVIL, ETC, ALL COMPLETE FOR 1X75 MW COMBINED CYCLE CAPTIVE POWER PLANT FOR VISAKH REFINERY MODERNIZATION PROJECT AT HPCL VISAKHAPATNAM, ANDHRA PRADESH”.

TENDER NO. PSER:SCT:VRM-C1907:18

The Corrigendum contains following amendment in the clauses and shall be a part of the above tender;

1. 'TCC' (VOLUME-IF-CML-REV-00) clause no. 32.4 32.5 & 32.6 has been modified as under.
2. 'TCC' (VOLUME-IF-CML-REV-00) clause no. 32.7 (32.7 to 32.7.27) stands deleted.
3. Unit of measurement of BOQ item 507 is modified as 'SQM'.

MODIFIED CLAUSE NO. 32.4, 32.5 & 32.6 OF 'TCC' (VOLUME-IF-CML-REV-00):

32.4	Following Major T&Ps to be arranged by contractor (A)	
Major T&P items		
32.4.1.1	Tower Crane 5/10 T	2 nos.
32.4.1.2	75/100 T crawler crane	APR
32.4.2	40/45 T crawler crane	APR
32.4.3	Hydraulic Excavator / Poclain	1 Nos.
32.4.4	Dozer	1 no.
32.4.5	Dumper	3 nos.
32.4.6	Vibromax /earth compactor	1 no.
32.4.7	Jack Hammer with Compressor	APR
32.4.8	18/20 MT Tyre mounted crane	APR
32.4.9	F-15 hydra (Driver Cabin, boom side by side) (10 / 12 T capacity) or equivalent	2 nos.
32.4.10	Welding rectifier	APR
32.4.11.1	Stationary automatic batching plant with printing facility (approx. 30 Cum/Hr.)	1 no.

32.4.11.2	Stationary automatic batching plant with printing facility (approx. 15 Cum/Hr.)	APR
32.4.12	Transit mixer (6 M ³ capacity)	3 nos.
32.4.13	1 no Mobile Concrete pump (20 cum/ hr. min capacity)	1 no.
32.4.14	Self-priming dewatering pump 5 HP (diesel/ electric)	1 no.
32.4.15	Self-priming dewatering pump 3 HP or higher(diesel/ electric)	2 nos.
32.4.16	Reinforcement bending machine	1 no.
32.4.17	Reinforcement cutting machine	2 nos.
32.4.18	Concrete vibrator with adequate needle (2 Nos. diesel driven + 3 Nos. electric driven)	5 Nos.
32.4.19	DG set 125KVA	2 Nos.
32.4.20	1 no trailer – 20T,	Within 50 days
32.4.21	Water Tanker – 3000 Ltr. Capacity	4 Nos.
32.4.22	Drinking water tank – 2000 lit.	1 no.
32.4.23	Scaffolding Pipe 2m, 3m, 4m & 6m	APR
32.4.24	Steel Shuttering Material in good working condition	APR
32.4.26	Portable fire extinguishers as below:	Soda acid – 3 sets. Dry chemical powder – 3 sets. CO2 – 3 sets. Water & sand bucket (4 buckets in one stand) – 3 sets. Fire hose with nozzle (50 M length) – 3 sets
32.5	<p><u>NOTES:</u></p> <ol style="list-style-type: none"> 1. The above list – (A) is only indicative and these T&Ps may not be required for entire contract period but contractor will ensure that these T & Ps are provided as per the work requirement. <u>T&P Deployment schedule will be finalized at site based on the work fronts and in consultation with BHEL Engineer. Contractor have to mobilize / maintain the T& P as per the schedule notified time to time by BHEL Engineer.</u> 2. If any one of T&P mentioned above is not needed for proper execution of scope of work, provided contractor has not utilized BHEL free issued T&P for completing such work, no recovery from contractor shall be applicable. 3. Any additional item required in addition to above mentioned T&P for proper execution of scope of work, contractor has to arrange such T&P within quoted rate 	

on the instruction of BHEL in writing in a reasonable period within two weeks from the written instruction from BHEL.

4. In case deployment of T&P w.r.t requirement, is delayed or deployed for a shorter period or abnormal down time of T&P or in case T&P w.r.t requirement was not deployed by the contractor as per instruction of BHEL and BHEL had to deploy either its own T&P or from outside, the recovery shall be done from the contractor as under:
 - a. In case BHEL had to deploy its own T&P, hire charges of T&P applicable for outside agencies as per extant guidelines for "Hire Charges on issue of Capital Tools & Plants" shall be recovered.
 - b. In case BHEL had to deploy the T&P from outside, actual hiring cost plus applicable overheads shall be recovered.
 - c. In case the contractor does not deploy or delays deployment or major T&P with reference to schedule specified or T&P deployed is out of service for continuous more than 5 days, BHEL will recover non-refundable penalty per day in the following manner-
 - i. In respect of each 40 MT/ 50MT crane - @ Rs. 5000/- per day
 - ii. In respect of each hydra 12T/ 14T/ 18T - @ Rs. 3000/- per day
 - iii. In respect of each trailer 20MT - @ Rs. 2000/- per day

For the daily recovery rate for other T&P/ IMTEs BHEL Engineer decision shall be final and binding on the contractor.

5. All the tools and tackles/measuring instruments shall be duly tested/calibrated and valid certificate to that effect should be submitted to BHEL site in-charge before the start of work.
6. Other terms and conditions regarding above items please also refer clause for T&P/IMTEs in SCC.
7. All the tools and plants required for this scope of work, except the Tools & Plants provided by BHEL are to be arranged by the contractor within the quoted rates. The list is suggestive in nature. **Any additional T & P required to meet BHEL commitments/schedule shall be arranged without any extra cost by the contractor.**
8. **If the work related to T & Ps mentioned above list - (A) is completed then, Engineer I / C can release the T & P during contract period / extended period if any. However, written permission shall be taken by contractor from BHEL construction Manager before releasing T&P.**

32.6	LIST OF IMTEs/MMEs REQUIRED:	
32.6.1	SL NO	EQUIPMENT
	1	TOTAL STATION
	2	AUTO LEVEL AND STAFF
	3	COMPRESSION STRENGTH TESTING EQUIPMENT
	4	CONSTRUCTION MATERIAL TEST EQUIPMENT
	5	CONCRETE CUBE MOULDS (150 X 150 X 150) mm
	6	CONCRETE SLUMP CONE
	7	COARSE AGGREGATE SIEVES & SAND SIEVER
	8	SIEVES AND SIEVE SHAKER
	9	AGGREGATE IMPACT TEST MACHINE
	10	LE CHATELEIR'S APPROATUS AUTO CLAVE EQUIPMENT
	11	LOS ANGELES ABRASION TESTING MACHINE
	12	AGGREGATE CRUSHING VALUE APPRATUS
	13	THICKNESS GAUGE FOR MEASURING FLAKINESS INDEX
	14	ELONGATION GAUGE
	15	PYCNOMETER (FOR SPECIFIC GRAVITY OF AGGREGATES)
	16	MOTORISED VIBRATION MACHINE FOR CEMENT TESTING
	17	PHYSICAL BALANCE FOR LAB WORK
	18	RAPID MOISTURE METER
	19	VICAT APPARATUS WITH PLUNGERS FOR CEMENT TESTING
	20	TOTAL STATION
	21	DUMPY LEVEL UP TO 350 MM
	22	CORE CUTTER TEST APPARATUS
	23	CUBE MOULDS (70MM SIZE)
	PROCESS CONTROL ACCESSORIES	
	1	HOT AIR OVEN (TEMPERATURE RANGE 50° C TO 300°C)
	2	ELECTRONIC BALANCE OF REQUIRED CAPACITY & SIZE
	3	PHYSICAL BALANCE OF REQUIRED CAPACITY & SIZE
	4	THERMOMETRE (RANGE 0°C TO 150°C)
	5	POKER THERMOMETER (CONCRETE ROAD) OF REQUIRED RANGE
	6	MEASURING JARS (100ml, 200ml, 500ml & 1000ml)
	7	DIGITAL pH METER
	8	DIGITAL MICROMETER
	9	DIGITAL PAINT THICKNESS METER FOR STEEL
	10	SCREW GAUGE (0.1mm - 10mm, Least Count .05)
	11	DIGITAL PAINT THICKNESS METER FOR MASONRY / CONCRETE PAINTING

32.6.2	<ol style="list-style-type: none"> 1. The above list is only indicative and these IMTEs/MMEs may not be required for entire contract period and will be provided as per need. Contractor will assess actual quantity and period of requirement based on his experience. 2. Other terms and conditions regarding above items please also refer clause for T&P/MMEs. 3. The contractor has to establish / arrange at site the field-testing facilities for testing of civil construction materials and concrete cubes for ensuring the proper quality, grade and strength of the materials used in the construction in line with approved field quality checklist of BHEL/ its client. Contractor has to submit detailed report for testing of all material used etc. All testing shall be done as per IS code specifications/ BHEL's quality plan. If further test is required by the engineer to be carried from outside laboratory, the cost of the same shall be borne by the contractor. 4. All the IMTEs /MMEs required for this scope of work, except the IMTEs / MMEs provided by BHEL, are to be arranged by the contractor within the quoted rates. The list is suggestive in nature. Any additional IMTEs / MMEs required to be arranged by the contractor.
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32.6.3 THE LIST OF T&Ps BEING PROVIDED BY BHEL FOR USE OF CONTRACTOR FREE OF HIRE CHARGES ON SHARING BASIS:

SI No.	EQUIPMENT	QUANTITY	PURPOSE	REMARKS
1	CRAWLER CRANE above 100 MT	01	FOR HEAVY STRCUTURE ERECTION WORKS WHICH CAN NOT BE EXECUTED USING CRANES IN CONTRACTOR'S SCOPE	ON SHARING BASIS

NOTES:

1. The contractor shall make necessary arrangement like laying of steel plates, assembly & dismantling of heavy lift attachment, boom, jib etc. for movement and operation of crane.
2. Any other special T&P if supplied by the manufacturer and available with the customer may also be provided to the contractor free of hire charges as and when made available. Special tools and tackles are to be used only for the purpose for which these are meant and to be returned in good condition.

3. For T&P other than cranes, mentioned above and any other provided by BHEL for erection and commissioning purposes, contractor shall transport from BHEL stores, install, operate, carry out maintenance, dismantle after use and return to BHEL stores in working condition.
4. Other terms and conditions regarding above items shall be as per T&P clause in SCC.
5. Cl.4.2.2.16 c.) of SCC shall read as day-to-day upkeep and running maintenance like filling topping up of lubricants, changing filters, etc. including repair of self-starter, batteries and dynamo of these cranes shall be excluded from the scope of the contractor. In case of breakdown of crane, contractor shall provide the necessary manpower for maintenance of the crane to maintenance agency, failing to do so BHEL will get the job done at the risk and cost of contractor. BHEL may also provide cranes through crane hiring agencies in which case the day-to-day upkeep and running maintenance shall be excluded from scope of contractor.
6. Cl.4.2.2.16 e.) of SCC. The operator, helper & maintenance personal for BHEL's cranes 100 MT & above capacity being provided by BHEL free of cost. Further fuel for operation of all BHEL cranes shall be provided by contractor without any extra cost.

***APR- As per Requirement**

All other terms and conditions against this NIT shall remain unchanged.

This corrigendum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part – I).

AGM/ SCP