

Bharat Heavy Electricals Limited
Project Engineering Management
Deptt-PG-1

Dt:-01.09.2020

Project: - 2 X 660 MW BIFPCL MAITREE KHULNA STPP-BANGLADESH
Enquiry No.: PE/PG/BIF/E-6479/2020 dated 16.07.2020
Package: - Mobile Pickup & Carry Crane

Subject: Corrigendum – 05 to NIT

DUE DATE
03-SEP-2020
BY 02:00 PM (IST)

Corrigenda is being issued for the following:

1. Amendment in Technical Specification as follows:

Section/ Clause/ Page No.	Statement of the referred clause	Amended as
Section-I/clause no. 1.2.0. d/ pg 7 of 300	Temporary registration and on road insurance & vehicle insurance for 01 year will be the responsibility of the bidder	Mobile pick up & carry crane type-I & type-II are to be transported to designated port through trailer (cargo). Hence, temporary registration and on road insurance are not required. Further, successful bidder has to furnish necessary documents on as & when required basis for registration /insurance of vehicle in Bangladesh without any cost implication to BHEL.

2. BHEL replies to bidder's pre-bid queries are being issued with this corrigendum.

3. "Due to COVID-19 pandemic condition prevailing in the country, BHEL/PEM may go for Remote Inspection of Offered items, if required. Vendors are requested to be equipped with the facilities/gadgets as indicated in the guidelines attached to take up the inspection REMOTELY."

For and on behalf of **BHEL**

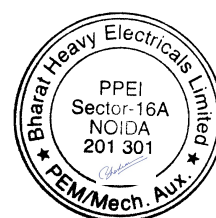

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Power Sector-Project Engineering Management
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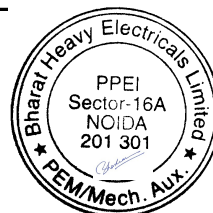
PROJECT	2x660 MW MAITREE STPP
PACKAGE	MAITREE- MOBILE PICK & CARRY CRANE
ENQUIRY NO.	

PREBID CLARIFICATIONS -1 DATED 28.08.2020

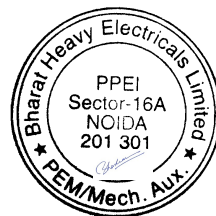
S.N.	Refernce	Description	Bidder's Comments/Observations	BHEL Reply/Confrimation
1	1.0.0	COMPLETE ASSEMBLED	We understand that the TMC will be mounted on the Crane and shipped as a single piece . Request you to kindly confirm	Bidder's understanding is correct. Assembled equipment to be supplied.
2	1.1.5	CONSUMABLES FOR WARANTY PERIOD	We will be providing consumables for Maintanance of TMC (Only Crane Part) for 1 year . Standard warranty of one year (Without any consumables) will be provided by the Truck Manufacturer	Bidder to follow NIT conditions regarding warranty. Please refer sl no. 5. regarding supply of consumables.
3	1.2.0	TEMP REGISTRATION & INSURANCE	As the Equipment is meant for export to Bangladesh , we request you to kindly confirm in whose name (Century / BHEL/End Client) will the temporary registration be taken on . Also only transit insurance will be required . Please confirm	Refer Technical Amendment no. -1 dated 28.08.2020.
4	Annexure IV	In Complete assembled Condition	OP-Open Type packing will suit	Open type packing is acceptable as defined in technical specification clause no. 4.1, page no. 223 of 300
5	Section-I/clause no. 1.2.0. d/ pg 6 of 300	Bidder shall supply all the consumables including lubricating oil, engine oil, coolant etc. as required for standard lubrication/service schedule of the crane, till the warranty period.	Consumables are required to be quoted for 3 years duration, in such as case we would request your estimated usage for the same or minimum service criteria. Please clarify the use of the machine in terms of hours (for pick and carry) and in terms of Kms and hours for truck crane.	Bidder shall supply all the consumables including lubricating oil, engine oil, coolant etc. as required for standard lubrication/service schedule of the crane, till the warranty period for 4 nos. of service as part of scope. Service schedule shall be as per standard practice of OEM and same has to be informed during detailed engineering.
	B0 GEN TECH SPEC			
6	Pg 20	Permissible Noise Levels-Maxm 60 DBA	The same will be as per Truck manufacturer standard	Referred clause is not relevant for noise level measurement of individual equipment.
7	B0.3.3 Pg 22	Deputation of Engineer during Warranty Period	Please reconfrim this point , as per our experience the same is applicable for Main TG equipments and not for Truck Mounted Cranes	Referred clause is not relevant for the equipment to be supplied under this tender, however bidder is required to quote visit & supervision charges as provisioned in price schedule.
8	B0.3.7 Pg 28	Training	One person will be deputed for training operators and maintianance staff . Duration of deputation will be 03 days .	Bidder is required to quote visit & supervision charges as provisioned in price schedule.
9	B0.3.9.4 Pg 41	Documentation O&M manual	1 set hard copy and soft copy only in English	Bidder to follow specification requirement. Further bidder has to provide no. of copies as specified at Section-II, Annexure-III, pg no. 218 of 300



10	B0.3.9.6 Pg 45	Quality control procedure	QAP which shall be followed is enclosed herewith . No tests will be offered for Truck as that is standard bought out item	QAP submitted by bidder cannot be reviewed at this stage and shall be reviewed finalised during detailed engineering. Hence the QAP submitted by bidder is deemed to be withdrawn.
11	B0.6.2 Pg 51	Standards & Codes	There is no specific IS pertaining to Truck Mounted Cranes . Standard QAP shall be followed . Furthermore , truck will be as per manufacturer standard . In case there is any specific standard pertaining to TMC that is either contractual requirement or followed in Bangladesh , we request you to kindly specify and share the same .	Manufacturer's standard for Truck Mounted Crane & Mobile Pick up crane are acceptable as per Datasheet clause no. A. 2 & B2 Pg no. 293 & 294 of 300
12	B0.6.5 Pg 53	Corrosion protection Coating & Galvanizing	Truck - Standard Manufacturer Procedure Crane - Shot Blasting + Zinc Cromate Primer + Synthetic Enamel Paint - Total DFT - 120 Micron (Min) . Please confrim the same	Detail related to painting shall be finalised during detailed engineering in accordance to spefication requirement. Bidder may further refer Painting specification as enclosed at Annexure-II, Sub Section-IA, Page 217 of 300 of Technical specification.
13	B0.6.14.2 pg 73 Para 3	Material to be certified by 3rd Party	Please confrim the name and contact details of the specified third party , in order for us to consider the same commercially .	Relevant clause is not applicable for equipment to be supplied under this tender.
14	B0.6.17.4	Thermal Insulation	Not Applicable in this Product. In case BHEL considers the same is necessary , please elaborate the location and requirement in detail	Bidder's understanding is correct. Referred clause is not applicable for equipment to be supplied under this tender.
15	B0.6.17.5/.6/.7/.8/10	Various References	Not Applicable in this Product. In case BHEL considers the same is necessary , please elaborate the location and requirement in detail	Bidder's understanding is correct. Referred clause is not applicable for equipment to be supplied under this tender.
16	B0.6.18/B0.6.19	Electrical equipments	Not Applicable in this Product. In case BHEL considers the same is necessary , please elaborate the location and requirement in detail	Bidder's understanding is correct. Referred clauses are broadly related to Power generating equipment in the plant.
17	B0.7	Inspection and Testing	As per QAP (Enclosed)	QAP submitted by bidder cannot be reviewed at this stage and shall be reviewed finalised during detailed engineering. Hence the QAP submitted by bidder is deemed to be withdrawn.
18	8.0 /9.0/10.0/11.0/12.0/13.	Guidelines for Packing Goods	Not Applicable in this Product. The material will be sent in open type condition . Please however note that when Crane will be fixed on truck the same will not be suitable for container loading . Please also confrim if this Truck with TMC can be self driven till port .	Both MOBILE PICK AND CARRY CRANE- TYPE -I & II are to be transported on Trailer till port.
TECHNICAL DATA SHEET FOR MOBILE PICK AND CARRY CRANE- TYPE -I Pg 293				
19	SI No 1	8T at 2.5 m working radius.	Only Load at one Point Given	Capacity has been mentioned at one particular location. Bidder shall be needed to provide detailed load chart at various points during detailed engineering.
20	SI No 3	Straight Boom/ 6 m (minimum)	Boom Length of 6 Meter will be provided	Bidder to follow BHEL techncial specifictaion requirement.



21	SI No9	Truck Reputed Indian make	Please confirm the size and capacity of cargo to be lifted in totality , alternatively , please provide the specification of truck like GVW, payload and horse power .	The truck should be capable to carry & handle minimum 8T load.
22	SI No 17	Emission Norms	Please confirm acceptance to BS 4 Compliant Truck	Specification requirement is clear.
23	Crane Fitment	Behind Cabin or Rear Side	Please confirm the exact location of mounting of the TMC , as this changes the entire design and costing .	Indicative photograph is already provided in datasheet. However these details shall be finalised during detailed engineering.



Guidelines for Remote Inspection of PEM BOIs

1) OBJECTIVE:

To lay down the procedure for carrying out Remote Inspection of Bought-out Items (BOIs) for PEM suppliers wherever applicable.

2) SCOPE:

It will cover suppliers for packages of PEM BOIs for various project requirements.

Invitation is sent to the suppliers for remote inspection on applications like MS Teams, Webex, etc. by BHEL.

3) MINIMUM REQUIREMENTS AT SUPPLIER'S WORKS:

- i. Uninterrupted internet services
- ii. Good internet bandwidth (Min 100 Mbps)
- iii. Good resolution camera (2 nos) – one preferably CCTV (static at one place) and one hand hold (moving)
- iv. Smart phone with minimum 8MPi camera front and back both with optical zoom facility suitable for using web applications like Webex, MicroSoft (MS) Teams, etc.
- v. Computer and Scanner with good resolution
- vi. Digital signatures of supplier's Quality Engineer
- vii. Availability of web applications like Webex, MicroSoft (MS) Teams, as required.
- viii. All Test certificates, internal test reports, calibration reports, etc. for the items offered for inspection.
- ix. Availability of the above to be submitted to BHEL two days in advance before inspection.
- x. Dedicated team from supplier side for facilitating inspection requirements.
- xi. For ensuring proper visibility, the suggested Portable lighting sources (torch/ electric LED bulb of minimum 15 W) with no glare is to be ensured at offered job, location for remote inspection/testing. This is to be verified before start of the inspection.
- xii. The GPS location co-ordinates or any method to locate inspection location shall be captured indicating the location of the Vendor-Premises of remote inspection/testing.

4) MINIMUM REQUIREMENTS AT BHEL and CUSTOMER LOCATION :

- i. Uninterrupted internet services
- ii. Suitable internet bandwidth
- iii. Digital signatures wherever required.
- iv. Availability of web applications like Webex, MS Teams, etc. as required.
- v. Clearance from customer for conducting remote inspection

5) PROCEDURE:

- i. Supplier will raise the inspection call in BHEL - CQIR portal.
- ii. Supplier shall ensure availability of minimum requirements at supplier's works as mentioned above at point 3.

- iii. Before starting the inspection, the supplier shall submit the documents (TCs, internal test reports and calibration certificates as per approved QAP) two days before the date of inspection for review by BHEL and supplier shall coordinate with BHEL and if found satisfactory, inspection shall be considered for remote.
 - iv. Prior to commencement of remote inspection a pre inspection meeting shall be organised by BHEL inspector with supplier to ascertain the readiness for remote inspection.
- 6) During inspection, supplier shall share the location on Google maps for verifying the address of the manufacturer. Location may be captured by BHEL as screenshot.
- i. Inspection shall be on the basis of approved Quality Plans and associated reference documents mentioned.
 - ii. For witnessing inspection, supplier shall bring the mobile video camera near to the surface of the equipment or as per requirement of the inspector for clarity in viewing the test/ equipment which shall be the responsibility of supplier. Supplier shall ensure that proper lighting is available during live video streaming.
 - iii. Before start of the inspection, inspector shall ensure that all instruments shall have valid calibration report. Supplier shall ensure use of digital instruments preferably for inspection to the extent possible.
 - iv. Details of suppliers's dedicated team handling the remote inspection shall also be incorporated in the CQIR.
 - v. All details of inspection/ testing referred documents shall be mentioned in the CQIR. Recording of remote inspection shall be maintained by the BHEL inspector and this recording (unedited) shall be maintained at BHEL system for a minimum period of 3 years or till the warranty period whichever is later.
 - vi. PEM (Engineering) shall accord final technical clearance, in case of any deviation in inspected item noticed during inspection.
 - vii. Inspection shall be conducted by PEM-Q&BE assigned inspector along with PEM-Engg (if required). CQIR shall be prepared and maintained by PEM-Q&BE.
 - viii. PG will issue MDCC on the basis of acceptance of inspected items along with accepted packing photographs as per contract provisions.
- 7) **UNDERTAKING BY VENDOR:** Material inspected through remote inspections is meeting all technical requirements of BHEL. In case of any discrepancy from the above procedure/ material inspected, if found later, vendor will replace the materials without any cost implication to BHEL.
- 8) Vendor shall provide the signed and stamped of the above guidelines to BHEL as a token of acceptance.