

पावर सेक्टर- पश्चिमी क्षेत्र Power Sector-Western Region
श्रीमोहिनी कॉम्प्लेक्स, 345 किंग्सवे, नागपुर Shreemohini complex, 345 Kingsway Nagpur - 440 001
फोन / Phone 0712- 3048600, फैक्स FAX: 0712- 3048699 www.bhelpswr.co.in

BHEL PAN: AAACB4146P

Ref.: PW/NGP/PUR/1901193/Corrigendum-03 & 04

DT: 22-02-2020

To,

ALL BIDDERS

Sub: Corrigendum-03 & 04 for extension of tender due dates Amendment in PQR, Issuance of Clarifications, Revised Price Bid,

Job: Fabrication and Supply of Foundation Bolt assembly for Main Pump House(MPH) #3, compressor house and ESP #1 on 'F.O.R.' destination basis to 3 X 800MW, PVUNL Patratu, District- Ramgarh, Jharkhand
Ref:

1. Tender Enquiry Number: 1901193 dtd 11-02-2020
2. Corrigendum-01 dated 18-02-2020 for Tender due date extension
3. Corrigendum-02dated 18-02-2020 for relaxation in PQR for MSE's and startups

Bidders to kindly take note of the following: -

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AA) Amendment to Technical PQR:

PQR Technical Existing Clause	PQR Technical Amended as
A) Technical Bidder must have supplied at least 53 MT of "Foundation Bolt" against a maximum of Two Purchase Orders (to any Government, Semi Government/ or any Customer) in last two years as on the latest date of submission of tender. To comply this qualification requirement, bidder shall have to furnish Purchase Order and proof of supply of Foundation Bolt against the same Purchase Order.	A) Technical Bidder must have supplied at least 35 MT of "Foundation Bolt" against a maximum of Two Purchase Orders (to any Government, Semi Government/ or any Customer) in last Seven years as on the latest date of submission of tender. To comply this qualification requirement, bidder shall have to furnish Purchase Order and proof of supply of Foundation Bolt against the same Purchase Order.
PQR Financial Existing Clause	PQR Financial Existing Clause

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Bidders must have achieved an average annual financial turnover (Audited) of Rs. 56 Lakhs or more, over the last three Financial Years (FY) i.e. '2016-2017, 2017-2018, 2018-2019.	Bidders must have achieved an average annual financial turnover (Audited) of Rs. 46 Lakhs or more, over the last three Financial Years (FY) i.e. '2016-2017, 2017-2018, 2018-2019.
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Note: All other terms and conditions of the PQR remains same.

BB) Clarification on technical queries:

2.1 Kindly refer Chapter-II , Section A . Part-I Technical (pg 13 of 19) under heading 1.Material specification

Existing Clause	Amended as
1. Material specification A) Fabrication of foundation bolts: i. MS rod conforming to IS: 2062, ii. For Bolts of 80 mm dia or above: MS rod conforming to SAE 1018.	1. Material specification A) Fabrication of foundation bolts: i. MS rod conforming to IS: 2062 or SAE 1018 Grade with properties equivalent to IS:2062 provided young's modulus E >250 MPa, and min. percentage (%) elongation>23% ii. Void

2.2. Requirement of foundation bolt 56 mm has been withdrawn .Revised quantity and weight of bolts is as below:

Table -01 : <u>Tentative Quantity and weight:</u>					
Bolt Dia	MPH#3 (Kg)	CH (Kg)	ESP#1 (Kg)	Total Qty. (KG)	TOTAL NO. OF BOLTS
20 DIA			732.9739	732.9739	48
25 DIA		359.2613	297.8594	657.1207	36
32 DIA	2430.312	137.752		2568.064	134
36 DIA			137.6965	137.6965	6
40 DIA		688.8601	296.9288	985.7889	36

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Table -01 : Tentative Quantity and weight:					
50 DIA		2965.856	1678.32	4644.176	114
60 DIA	5680.063	735.8825	2049.366	8465.311	116
72 DIA	22494.33		3678.127	26172.45	220
80 DIA	15519.32			15519.32	96
100 DIA	30015.68			30015.68	108
Total				89898.6	914
Description				Qty (nos.)	Qty (MT)
Foundation Bolt Assembly of 20 mm, diameter all complete as per Drawing				48	0.73
Foundation Bolt Assembly of 25 mm, diameter all complete as per Drawing				36	0.66
Foundation Bolt Assembly of 32 mm, diameter all complete as per Drawing				134	2.57
Foundation Bolt Assembly of 36 mm, diameter all complete as per Drawing				6	0.14
Foundation Bolt Assembly of 40 mm, diameter all complete as per Drawing				36	0.99
Foundation Bolt Assembly of 50 mm, diameter all complete as per Drawing				114	4.64
Foundation Bolt Assembly of 60 mm, diameter all complete as per Drawing				116	8.47
Foundation Bolt Assembly of 72 mm, diameter all complete as per Drawing				220	26.17
Foundation Bolt Assembly of 80 mm diameter all complete as per Drawing				96	15.52
Foundation Bolt Assembly of 100 mm diameter all complete as per Drawing				108	30.02
Total				914	89.90

◆ Quantity variation shall be $\pm 10\%$ of the Total Quantity (89.90 MT $\pm 10\%$)

2.3. Bidders Query:

- 1) UT Check will be carried out for Round Dia. 40 & Above as per SA 388 (Backwall Echo Method) & for Plate Thk. 40mm and above as per A 578 Level B

BHEL reply: Applicable Indian standard may kindly be followed for rounds. For 40mm and above thickness, plates shall be 100% Ultrasonically tested as per ASTM - A578 Level B-S2.

- 2) For. Dia. 32mm to Dia. 90mm, RINL is manufacturing the same sizes and traceability can be done in terms of weigh slip or invoice of yard to broker to trader to us. Mill Grade in Mill TC will be SAE 1018 which is equivalent to IS 2062 Gr. A / IS 432 Gr. 1.

BHEL's reply: Proper traceability of materials should be there from NTPC approved sources (supplier) to fabricator of foundation bolts workshop. IS:2062 or Equivalent (SAE-Standard) may be used. Minimum elongation of 23% must be ensured.

- 3) For Dia.100mm as main mills are not manufacturing the same, traceability can not be done as same has to rolled from available guaranteed IS 2062 E250 or SAE 1018 billets in Open Market. If require client can test the same at NABL approved laboratory. However Check Testing chemical and tensile as per I"IS 432 Gr. 1" at NABL approved laboratory for All Diameters will be done by us on Raw material stage before startup of production.

BHEL's reply: 100mm dia bolts may be fabricated from mild steel bars conforming to Grade-1 of IS 432. Material test certificate meeting the above requirement should be furnished. Material must be tested at NABL approved laboratory by bidder.

- 4) For Hex Nuts M30, M39, M60 Dimensions will be as per IS 1363 / IS 1364 standard. M72, M80, M90 & M100 will be as per IS 3138.

BHEL's reply: Applicable Indian standards may be followed.

- 5) Grade of Hex Nuts will be IS 1367 Cl.4. Chemical, Hardness & Proof Load will be done for M30 & M39 as same is covered under IS 1367 Standard. For M60, M72, M80 & M100 only Chemical Check and Hardness check as per IS 1367 cl.4 will be carried out.

BHEL's reply: Applicable Indian standards may be followed.

- 6) Invoicing will be done on Actual Weight Basis. Weigh Slip of Third Party Weigh Bridge will be submitted along with Invoice as supporting documents.

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BHEL's reply: Refer tender documents. Tender condition shall prevail.

CC) Issuance Revised Price Bid

Bidders to note that 'Vol-II Price Bid' has been revised as 'Vol-II Price Bid – Revised'.

In case any bidder who has submitted their offer prior to issuance of this corrigendum, such bidder should submit their offer according to the 'Vol-II Price Bid – Revised' within scheduled date of offer submission.

DD) Extension of Last Date

The last date for submission of Tender has been rescheduled to **26-02-2020, 15.00 hrs**

Technical Bid shall be opened on **26-02-2020, 15.15 hrs.**

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All other Terms and conditions of the Tender Specification shall remain unaltered unless expressly amended by BHEL in writing.

Bidders are requested to submit as a part of their offer, a copy of this corrigendum duly Digitally countersigned by the authorized signatory as a token of Bidder's unqualified acceptance of this corrigendum.

BIDDERS MAY PLEASE NOTE THAT SUBJECT TENDER IS E-TENDER AND THE OFFER IS TO BE SUBMITTED ONLY IN E-PROCUREMENT PORTAL <https://bhel.abcpurchase.com>

BIDDERS WHO HAVE ALREADY SUBMITTED THEIR OFFERS PRIOR TO ISSUANCE OF THIS CORRIGENDUM IN E-TENDER PORTAL ARE REQUIRED TO RE-SUBMIT THEIR OFFER AFTER TAKING COGNIZANCE OF THIS CORRIGENDUM.

Thanking you,
Yours faithfully,

AGM/Purchase