



# Bharat Heavy Electricals Limited

(A Government of India Undertaking)

## Transmission Business Group, Noida

Sub-Contracts Management,

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### AMENDMENT -01 to NIT No. 18195

**Dated 04.07.2014**

Ref: Tender Spec No: TBSM/NAGDA/CIVIL/TENDER, Dated 12.06.2014

**With reference to above tender for “Execution and handing over of civil works of 125MVAR 400kV Bus reactor at existing 400kV substation at Nagda in Madhya Pradesh” following amendment may please be noted.**

#### **A. BILL OF QUANTITY FOR EARTHING WORKS (Rev-01)(ANNEXURE-II)**

**Bill of quantity for earthing work has been revised. Bidders are requested to submit their offer as per procedure mentioned below:**

- **Bidders who have not yet submitted their offer:** Bidders are required to quote as per revised Earthing BOQ (rev.01) and other annexure for above work. Please also enclose with your Technical Bid a copy of this amendment-01 duly signed by your authorised signatory and stamped.
- **Bidders who have already submitted their offer:** Bidders are required to submit this duly signed amendment along with revised un-priced BOQ of earthing works (Annexure-II(rev-01) and summary of prices(rev-01)) in a sealed cover (Part-I). Revised price offer (Annexure-II (rev-01) and summary of prices (rev-01)) shall be submitted in a separate sealed cover “Revised Price Bid” envelope (Part-II). Both these cover shall be kept in a separate envelope superscribing “Revised price offer due to amendment-01 in NIT” and also indicating tender specification No.

#### **B. SI. No. 8 of “Delay and Extension of Time” under Annexure to conditions of contract for civil works is now deleted and now this clause should be read as below**

If, in the opinion of the Engineer, the work is delayed

- by reason of abnormally bad weather, or
- by reason of serious loss or damage by fire, or
- by reason of civil commotion, local combination of workmen, strike or lockout, affecting any of the trades employed on the work, or
- by delay on the part of the agency or tradesman engaged by the BHEL in executing work not forming part of the contract, or

- By reason of any other cause which in the absolute discretion of the Engineer is beyond the contractor's control, then in any such case, the Engineer (or higher authority) may make fair and reasonable extension in the completion dates of the individual items of work of the contract as whole. Such extension which will be communicated to the contractor by the Engineer in writing shall be final and binding on the contractor. No other claim in this respect for compensation, idle labour or otherwise howsoever is admissible. Upon the happening of any such event causing delay the contractor shall immediately give notice thereof in writing to the Engineer but shall nevertheless use constantly his best endeavour to prevent or make good the delay and shall do all that may reasonably be required to the satisfaction of the Engineer to proceed with the work.
- In case of delay in completion of work BHEL reserve the right to grant time extension under the following options depending upon the performance of the vendor:
  - a. Time extension without levy of LD in case it is found that delay is not attributable to the vendor.
  - b. Time extension with deduction of applicable LD in line with Liquidity Damage clause if the delay is solely attributable to the vendor.
  - c. In case facts of delay is not settled, BHEL reserve the right to grant provisional time extension for delay in completion of total work or part thereof and running/ interim payments to the vendor will be released without deduction of LD subject to submission of additional Bank guarantee equivalent to maximum LD amount valid till completion of work under their scope and grant of final time extension.

The Final Delay analysis shall be prepared on completion of the work. In case of delay attributable to contractor LD shall be deducted for that period in line with clause "Compensation/ LD/ Penalty for delay in execution" of conditions of contract.

**C. The due date & tender submission time and technical bid opening are extended as below:**

**Tender submission date & time: 23/07/2014, 15.00 hrs.**

**Technical bid opening date & time: 23/07/2014, 15.30 hrs.**

- **All other terms & conditions of the tender specifications remain unchanged.**

(Hitender Bhalla)  
Sr. Manager /TBSM

Enclosure:

1. Earthing BOQ for 400kV substation at Nagda in Madhya Pradesh-Rev-01 (Annexure-II)
2. Summary of prices Rev-01 (Annexure-IV)

## BILL OF QUANTITIES FOR UNDER GROUND EARTHING AND ELECTRODES , REV.01

Name of Project : 400kV substation at Nagda in Madhya Pradesh

S. No	Description	Unit	Quantity	Unit Rate	Amount
1	Unloading, storing and laying of 100X12 mm MS flat at a depth of 500 to 800 mm measured from the top of FGL (either top of gravel or top of land as the case may be) as per requirement including following works: excavation - laying of MS flat - backfilling of soil. This shall include all cutting, bending, welding, fixing, application of zinc rich paint on cutting surface, etc to the main earthmat. - any other work necessary to complete the laying of earthmat -100x12 mm MS flat will be supplied by BHEL	MT	5		
2	Unloading, storing and laying of 75X8 mm MS flat at a depth of 500 mm to 800mm and bringing out risers just above gravel level near the equipment foundations as per requirement including following works: - excavation - backfilling of soil for bringing out pig tail risers of 75X8 MS flat for equipments. Risers shall be raised from the earthmat (at 500 to 800mm depth) to 300 mm above ground level to the nearest point of the equipment. This shall include all cutting, bending, welding, fixing, application of zinc rich paint on cutting surface, etc to the main earthmat. -75X8 MS flat will be supplied by BHEL	MT	2		
3	Installing of hot dip galvanized MS rod Electrode of size 25mm dia. x3000mm long( to be driven in ground) ,including following works : - excavation/hammering of rod in earth - installing the rode electrode - backfilling and compaction - any other work necessary to complete the work -MS galvanized rod Electrode of size 25mm dia. x3000mm long will be supplied by contractor .	Nos.	25		
4	Installing of hot dip galvanized MS rods Electrode of size (25mm dia. x3000mm long ) in earth by making drilling of 6" and test pit ,including following works : - excavation - installing the rode electrode - back filling of earthing pits with bentonite soil - any other work necessary to complete the work -MS galvanized rod Electrode of size 25mm dia. x3000mm long , bentonite soil and required nut bolt will be supplied by contractor .	Nos.	1		
5	Installing of earth pit as per enclosed drawing  -Including Civil work , excavation , brick work , cutting, bending, welding, backfilling of soil , fixing etc as per drawing. - 4 nos. GI pipes 40 mm diameter, 4mm thick shall be used for one earth pit . -GI pipes and all other required material as per drawing shall be supplied by contractor .Only MS flat shall be supplied by BHEL.	set( earth pit)	4		
Total Amount (Rs.)					
<p><b>Note 1-</b> Refer enclosed specification for detailed of below ground earthing and drawing .</p> <p><b>Note 2-</b> Actual depth of below ground earth mat grid is 500mm, but it may be varies some places from 500mm to 800mm due to fouling of trench , drain , culvert etc.</p>					

## ANNEXURE-IV (Rev-01)

**SUMMARY OF PRICES FOR EXECUTION AND HANDING OVER OF CIVIL WORKS OF  
125MVAR 400KV BUS REACTOR AT EXISTING 400KV SUBSTATION AT NAGDA IN  
MADHYA PRADESH**

**Tender Spec. No. TBSM/NAGDA/CIVIL/TENDER, Dated 12.06.2014**

SI No.	Description	Amount (Rs.)
1(a)	Total amount as per the rates in BOQ for Civil works of foundations for structures (including foundation of peripeherial lighting poles) (Annexure-I(a))	3,630,002.00
1(b)	Total amount as per the rates in BOQ for Civil works of earth pits (Annexure-I(b))	119,750.00
1©	Total amount as per the rates in BOQ for Civil works for construction of cable trench (Annexure-I(c))	479,573.00
1(d)	Total amount as per the rates in BOQ for Civil works for yard fencing (Annexure-I(d))	1,326,905.00
1(e)	Total amount as per the rates in BOQ for Civil works for yard levelling (Annexure-I(e))	139,260.00
1(f)	Total amount as per the rates in BOQ for Civil works of yard metalling works (Annexure-I(f))	957,500.00
1(g)	Total amount as per the rates in BOQ for Civil works for construction of road inside the yard (Annexure-I(g))	563,200.00
1(h)	Total amount as per the rates in BOQ for Civil works for construction of culverts inside the yard (Annexure-I(h))	34,413.00
1	<b>Total amount as per the rates in BOQ for Civil works (Annexure 1(a) to 1(h))</b>	<b>7,250,603.00</b>
2	The summary of annexures 1(a) to 1(h) is placed at sl. No. 1 above & <b>bidder to quote same % (above or below) as quoted in Annexure-A</b>	.....% above/below
3	<b>Total amount for civil works (Annexure 1(a) to 1(h)) after consideration % above/below as quoted in sl. No. 2 above/ Annexure A</b>	
4	<b>Underground Earthing Works (Annexure-II, Rev-01)</b>	
5	<b>Construction of Stores (Annexure-III)</b>	
6	<b>Total Cost in Rs. (3+4+5)</b>	-