



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 03

Ref: PSER:SCT:SAL:M1241:11:TCN-03

Date: 07-04-2012

| | | |
|-----|--|--|
| Sub | Tender change notice (TCN) - 03 | |
| Job | Design, Engineering, Manufacturing, Supply & Installation of Mill Reject Handling System for 3 X 250 MW NTPC Bongaigaon Thermal Power Project, Kokrajhar, Assam. | |
| Ref | 1.0 | Tender no PSER:SCT:SAL:M1241:11 |
| | 2.0 | BHEL's NIT, vide reference no PSER: SCT: SAL:M1241:11, Dated 14-09-2011. |
| | 3.0 | BHEL's TCN-01, vide reference no PSER:SCT:SAL:M1241:11:TCN-01, Dated 10-10-2011. |
| | 4.0 | BHEL's TCN-02, vide reference no PSER:SCT:SAL:M1241:11:TCN-02, Dated 23-03-2012. |
| | 5.0 | Other references (if any). |

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

1. Technical Clarification is attached vide ANNEXURE-A to TCN-03.
2. Due date of offer submission is extended from 07-04-2012 to **17-04-2012** (15=00 Hrs). Bidders are requested to submit their offer by extended due date positively.
3. Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
4. All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

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

ANNEXURE-A to TCN-03

| | |
|-----------|--|
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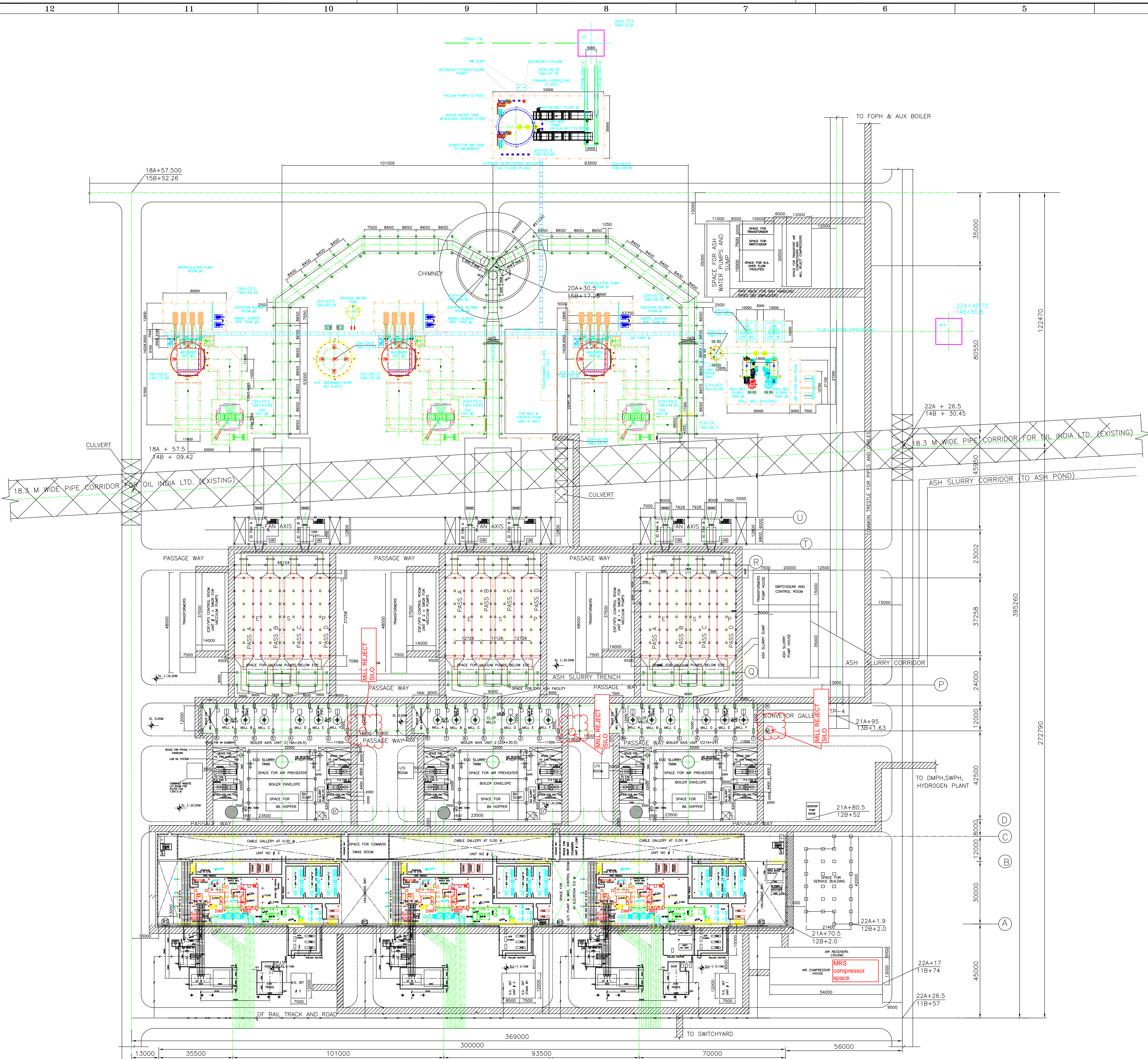
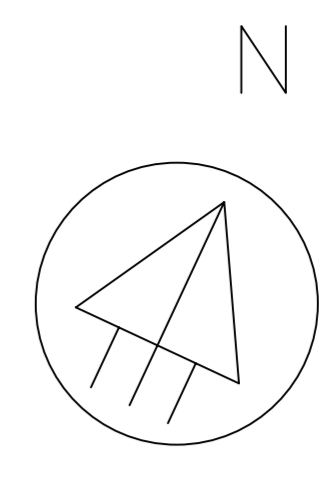
| SI No | Bidder's query | BHEL's Clarification |
|-------|---|---|
| 1.0 | Plot Plan | Drawing attached. |
| 2.0 | Tentative distance for the location of mill reject compressor to be housed in main compressor house. | Refer attached drawing. |
| 3.0 | Location of the tap off point from CW header for cooling water requirement of mill reject compressor. | ECW water for compressor cooling : 5m outside the compressor house. Online equipment cooling water boosting and water wastage is not permitted. Bidder shall ensure these requirements while selecting compressors. |
| 4.0 | Location of tap off point from plant service water header required for quenching of pyrite hopper. | Service water & Instrument air : Within 5 meters Near Mill Bay for each unit. |
| 5.0 | Location of tap off point plant instrument air compressor for operation of pneumatic operated valve/Bag filter of mill reject system for each unit. | As per SI No. 4.0 above. |
| 6.0 | Location of electrical control room with respect to compressor house and mill reject equipment of each unit. | DCS shall be located approx.500m away from the bunker/mill depending upon the layout. MCC location shall be max 50m from compressors. |
| 7.0 | Location of DCS with respect to Electrical Control Room. | As per SI No. 6.0 above. |

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LEGEND

| | |
|--|------------------------|
| | PIPE HATCH |
| | VERTICAL BRACING |
| | FIRE PROOF DOOR |
| | GRATING |
| | CHEQUERED PLATE |
| | REMOVABLE HAND RAILING |
| | PIPE & CABLE TRESTLE |
| | FIRE BARRIER WALL |

- NOTES**
1. THE EQUIPMENT SHALL BE GENERALLY IN ACCORDANCE WITH THE LAYOUT AND DIMENSIONAL REQUIREMENTS INDICATED IN THESE DRAWINGS. HOWEVER BUILDING SIZES INDICATED ARE MINIMUM REQUIREMENT AND ACTUAL SIZE SHALL BE AS PER FUNCTIONAL REQUIREMENT BUT NOT LESS THAN THOSE INDICATED IN THESE DRAWINGS.
 2. NO PIPES, CABLES, STRUCTURES ARE TO BE PLACED BELOW 7.0M (BOP, BOC OR BOS) IN FRONT OF BOILER BETWEEN THE 8.0M CORRIDOR SEPARATING MAIN PLANT AND FIRST ROW OF BOILER COLUMNS.(i.e. CD BAY)
 3. ALL THE DOORS PROVIDED ON C- ROW INTERCONNECTING WITH BOILER ARE OF DOUBLE DOOR TYPE TO AVOID INGRESS OF DUST TO MAIN PLANT BUILDING.
 4. LOCATION OF DOORS /REMOVABLE COVERS SHOWN IN THE DRAWINGS ARE INDICATIVE AND SHALL BE FINALISED DURING DETAILED ENGINEERING.
 5. ALL DIMENSIONS ARE IN MM'S AND LEVELS ARE IN METRES.
 6. EL. 0.00M CORRESPONDS TO R.L. (+) 50.92 METERS.
 7. BRICK WALL REQUIREMENTS :
 - i) ALL STAIRCASES AT 'A' ROW & 'C' ROW SHALL BE PROVIDED WITH 230 mm THICK BRICK ENCLOSURE.
 - ii) ALL CABLE SPREADER ROOM WALLS.
 - iii) WALLS OF SWAS AND REMOTE I/O ROOMS
 - iv) HT/LT SWITCH GEAR ROOMS, BOILER MCC ROOM.
 - v) AIR HANDLING UNITS(AHU).
 - vi) OIL EQUIPMENT ROOM .
 8. RCC WALL : 200 mm THK RCC WALL FROM EL. 0.0M TO 0.6M FOR LUBE OIL ROOM.
 - 9.FIRE BARRIER WALL : PROVIDED ON A- ROW BETWEEN AXIS NO. 10-13,18-21,22-25, 35-38.
 - 10.FOR DETAIL OF VARIOUS COMPONENTS REFER BHFL DRG. AT EL. 0.00M. DRAWING NO. PE-DG-305-100-M001, REV 01
 - 11.LOCATION AND SIZE OF TRANSFORMERS IS TENTATIVE AND SHALL BE FINALIZED ON RECEIVING OF FINAL DATA FROM RESPECTIVE VENDOR.FIREWALL REQUIREMENT SHALL BE FINALIZED ACCORDINGLY.
 - 12.TOTAL 16 NOS. REMOTE I/O PANELS & CHARGER PANEL SHALL BE LOCATED IN ESP/VFD CONTROL ROOM .BATTERY FOR 24V DC CHARGERS SHALL BE LOCATED AT TOP(NEAR AHU'S).
 - 13.TRANSFORMER YARD LAYOUT WILL BE REVISED AFTER RECEIVING FINAL DRAWINGS FROM PE-ELEC

- REFERENCE DRAWINGS**
- 1) GA OF BOILER SECTIONAL PLAN DRAWING NO. 4610-101-01-TR-PVM-B-001
 - 2) GA OF BOILER SECTIONAL SIDE ELEVATION DRAWING NO. 4610-101-01-TR-PVM-B-002
 - 3) LAYOUT OF ID SYSTEM PLAN DRAWING NO. 4610-101-01-TR-PVM-Y-005 SH-1
 - 4) LAYOUT OF ID SYSTEM ELEVATION DRAWING NO. 4610-101-01-TR-PVM-Y-005 SH-2
 - 5) KEY PLAN FOR BOILERS DRAWING NO. 4610-101-01-TR-PVM-B-003
 - 6) LAYOUT OF ASH HANDLING FACILITIES DRAWING NO. 4610-162-POM-A-005

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|--|----------------------------|------|--------|---------------------------|---|---|---|-----|------|-----|---------|------------|
| NTPC Limited. (A Government of India Enterprise) ENGINEERING DIVISION | | | | | | | | | | | | |
| PROJECT BONGAIGAN THERMAL POWER PROJECT (3x250MW) | | | | | | | | | | | | |
| TITLE EQUIPMENT LAYOUT PLAN AT EL.0.00M. | | | | | | | | | | | | |
| REV. NO. | DESCRIPTION | PG | DESIGN | CHKD. | M | E | C | C&I | ARCH | N/A | J.DUTTA | 24-03-2009 |
| 0 | RELEASED FOR FURTHER ENGG. | PG | HS | AG | | | | | | N/A | J.DUTTA | 23-07-2008 |
| CLEARED BY | | | | | | | | | | | | |
| | | SIZE | SCALE | DRG. NO. | | | | | | | | REV. NO. |
| | | A-1 | 1:1000 | 4610-999-POM-F-001 | | | | | | | | 1 |
| BONG1LAY01-3x250MW-TR 23-07-08 | | | | | | | | | | | | |

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. | |
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| | 5.0 | BHEL's TCN-03, vide reference no PSER:SCT:SAL:M1241:11:TCN-03, Dated 07-04-2012 |
| | 6.0 | 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)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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