

Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Project Engineering
Management



Ref No.: PE/PG/BL3/E-3172/11-01
Enquiry No.: PE/PG/BL3/E-3172/11
Dated: 14/09/2011

Date: 25.10.2011

ADDENDUM TO ENQUIRY LETTER

1. The last date of submission of tender for NDCT TYPE COOLING TOWER invited vide Enquiry No PE/PG/BL3/E-3172/11 dated 14.09.2011 is extended up to 02.12.2011 with below mentioned additional/modified requirements.
2. Payment terms (both for Indian as well as foreign bidders) shall be as per clause no. 8.2 of Volume-I Part-B, GCC Rev 04 for supply and clause no. 8.3 of Volume-I Part-B, GCC REV 04 for payment of erection & commissioning.
3. Foreign bidders to note that their prices shall be loaded @ 4% of 100% F.O.B value of supply price for payment through LC (LC shall be opened for 80% / 85% of supply value). Rest of the payments shall be made through bank transfer.
4. **ACCOUNTING OF MATERIALS ISSUE**

The material issued to the contractor will be accounted as follows:-

i) ISSUE OF STEEL


The steel shall be issued to the contractor on the following basis:

- | | |
|--|-------------------------------|
| (a) Structural Steel | : Weighment basis (Unit – MT) |
| (b) Reinforcement Steel
and Earthing Rod (MS Round) | : Weighment basis (Unit – MT) |

All the steel (structural, reinforcement, earthing MS Rod) issued by the BHEL shall be properly accounted for. The total quantity of steel required for the work will be calculated from the approved Bar Bending schedule, fabrication drawings, approved laps, chairs and lugs. The measurement for payment as well as for accounting shall be based on the sectional weights as indicated in the following IS specifications.

IS: 808-1964	Beams, Channels and Angles
IS: 1730-1961	Plates, Sheets and Strips/Flats
IS: 1732-1971	Rounds including deformed high yield strength bars

In case any such sectional weights are not available in the above documents, the manufacturer recommendation shall be binding.


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The steel issued to the contractor shall be mainly in standard length and sections as received from the supplier. However, the contractor shall be bound to accept the steel in length as available in the project stores no claims for extra payment because of issue of non-standard length will be entertained.

The contractor shall satisfy himself of the quality and quantity of the materials at the time of taking delivery from BHEL stores. No claims whatsoever will be entertained by BHEL because of quality or quantity after the materials are taken by the contractor from BHEL stores.

The contractor shall submit to the engineer, a statement indicating estimated quantity of steel required during a quarter, at least two months in advance of the quarter. In addition, the contractor shall also furnish the estimated requirement of steel during a month by the third week of the previous month indicating his requirement.

Following shall be limit for the maximum quantity of BHEL issue materials that would be with the contractor at any point of time when work is in progress (excluding what has already been incorporated in the works).

SL. NO.	ISSUE OF MATERIALS	MAX. QTY IN CONTRACTORS STORE
1.	Reinforcement Steel & Earthing Rod MS Round	Requirement of one month
2.	Structural Steel	-----DO-----

Bidders to ensure that no lamination material are taken over by them from BHEL. Fabrication wastage, if any due to above, shall not be compensated by BHEL.

Bidder to note that steel materials required for MS Grating, Galvanised Grating, GI Handrail, Stainless Steel Handrail, Stop Lock Gate, Stationery Screen, fasteners like MS/HT/HSFG bolts/nuts, lock nuts, washers and foundation bolts other than those supplied by BHEL, etc shall be supplied by the bidder.

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ii) RETURN OF MATERIALS

All surplus steel and all wastage materials will be taken back on weighment basis.

Surplus, unused and untampered steel shall be sorted section-wise and returned separately for a place directed by BHEL/Engineer within the project area. Return of such materials will not be entitled to any handling and incidental charges.

All wastage / scrap (including melting scrap, wastage, unusable scrap) shall be promptly returned to the stores and a receipt obtained for material accounting purposes. Return of such material will not be entitled to any transportation and incidental charge.

iii) STEEL CONSUMPTION AND WASTAGE

**REINFORCEMENT STEEL AND EARTHING ROD MS ROUND STEEL:
CONSUMPTION AND WASTAGE.**

a) CONSUMPTION.

The theoretical consumption of various sections and/or diameter of reinforcement steel shall be based on approved construction drawing and bar bending schedule. Weight shall be calculated considering the sectional weights as per Indian standards. No extra cost shall be payable to the contractor for any deviation in weights for the different procedures adopted for issue and calculation of the theoretical consumption including rolling tolerances.

i) Actual consumption = Issue – Surplus.

ii) Surplus = Un-tampered and unused QTY of steel returned by the contractor to BHEL store along-with relevant documents.

iii) Wastage = Actual consumption – Theoretical consumption.

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b) WASTAGE

ALLOWABLE WASTAGE: - (+5%) of the theoretical consumption shall be considered as allowable wastage.


SL. NO.	REINFORCEMENT STEEL & EARTHING ROD MS ROUND	BASIS OF ISSUE & RECOVERY RATE
R-1	Theoretical consumption (without considering wastage and scrap or loss)	Free
R-2	Wastage limited to plus FIVE percent (+5%) of aforesaid theoretical consumption (R-1) towards allowable wastage (cut pieces plus scrap to be returned to BHEL).	Free
R-3	Wastage beyond FIVE percent (+5%) Of the theoretical consumption above (R-1) (cut pieces plus scrap to be returned to BHEL).	Penal Rate

**STRUCTURAL STEEL, (ROLLED SECTION, PLATES ETC.)
CONSUMPTION & WASTAGE**

a) CONSUMPTION: -

The theoretical consumption of various sections shall be based on approved drawings. Weights shall be calculated considering the sectional weights as per Indian standard. No extra shall payable to the contractor for any deviation in weights for the two different procedures adopted for issue and calculation of the theoretical consumption including rolling tolerances.

i) Actual consumption = Issue – Surplus.


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- ii) Surplus = UN tempered, unused, uncut quantity of steel returned by the contractor to BHEL store.
- iii) Wastage = Actual consumption – Theoretical consumption.

b) WASTAGE


Allowable wastage: - 5% (five percent) of the theoretical consumption shall be considered. Wastage shall be considered as cut pieces and scrap material, measured as per actual weightment basis. Invisible wastage, if any, shall be considered to be included in the specified 5 % allowable wastage.

**SL. NO. CONSUMPTION OF STRUCTURAL BASIS OF ISSUE
STEEL (ROLLED SECTION, PLATES & SS liner)**

S-1	Theoretical consumption (without Considering any wastage, scrap or loss) as per spec. & drg.	Free
S-2	Wastage limited to plus five percent (+5%) of the aforesaid theoretical consumption (S-1) towards allowable wastage.	Free
S-3	Wastage beyond five percent (5%) of the aforesaid theoretical consumption (S-1). (All wastage steel shall be returned to BHEL).	Penal Rate

RECONCILIATION OF MATERIALS

The contractor shall submit a reconciliation statement of steel issued to him with each RA Bill. At the time of submission of bills, the contractor shall properly account for the material issued to him as specified herein to the satisfaction of BHEL certifying that the balance material are available with contractor's custody at site. At the time of submission of bills by the contractor, if it is noticed by BHEL that the wastage is high and calls recovery at the penal rate, then, BHEL will proceed for recovery for the excess wastage as per penal recovery rates as specified.



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The reference drawings for actual material consumption to be used for the purpose of reconciliation shall be drawings prepared by the BHEL and drawings approved by BHEL for fabrication works and such other drawings approved by BHEL. This shall also include the bar bending schedule prepared by the contractor and approve by BHEL.

iv) RECOVERY OF MATERIAL

If wastage exceeds the specified limit, the recovery of excess wastage shall be made from monthly R/A Bill at the Penal Rate.

v) PENAL RATE OF MATERIALS

A. REINFORCEMENT STEEL

Rs. 50,000/- per MT.

Cold rolled steel, high strength
deformed bar or mild steel round
bars including earthing rod
MS round.

B. STRUCTURAL STEEL

Rs. 50,000/- per MT.

MS plates, MS flats, rolled steel
joists, channels, and angles, MS
pipes, Chequered Plates, etc in
sizes and lengths as available

Thanking you,
Yours faithfully,
For and on behalf of BHEL


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