

TECHNICAL SPECIFICATION
FOR PROCUREMENT OF
STEEL OPTIMIZER



TENDER NO. E-588-11-0019-69-1 DUE ON 28-12-2011

PURCHASE DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
VARANASI – 221003 (U.P.)



ANNEXURE-I

TECHNICAL SPECIFICATIONS FOR PROCUREMENT OF STEEL OPTIMIZER BY BHEL, HERP, VARANASI

A Versatile Storage System for Storage of files, box folders, documents, stationary etc. It shall consist of fixed and movable storage units bolted to undercarriages, which move on channels.

STEEL OPTIMIZER UNIT:

Unit Size: 8231mm (L) x 3600 mm (W) x 2362 mm (H); 6 Tier

NOTE: Length of the unit is overall size inclusive of aisle space.

No of Units - 04

Each Unit Consists of:

- Single Static Drive Cover Unit 4 Bay: one
- Single Last Drive Unit 4 Bay: one
- Twin Mobile Drive Unit 4 Bay: Seven
- Rails: Three

CONSTRUCTION:

Rigid welded construction made of CRCA steel & powder coated with epoxy polyester powder.

UNDERCARRIAGE:

Welded frame made of HR sheet. Bodies shall be bolted to undercarriage for movement on channels.

DRIVE TYPE:

- Movement of unit through mechanical drive wheel and sprocket-chain mechanism.
- Provision of manual locking of individual units when in use to ensure safety.

OTHER SALIENT FEATURES:

- Centralized locking arrangement mounted on last movable unit to provide locking of all units when brought together.
- Channels mounted on levelled ground for movement of storage system with provision of end stoppers.
- Provision of index type level holder for providing indexing and easy identification of the contents of the unit and shelves.
- The Steel Optimizer should consist of storage units of 450mm deep, movable and bolted to undercarriage which rolls on the channels and firmly embedded to the ground.



- Installation of all the four (4) Steel Optimizer units shall be carried out as per plan (HERP/ OPTIMIZER:1) attached.
- The height of the unit indicated as 2362 mm. (6 Tier) is including the storage body height but excluding the undercarriage and rails. The main body should be rigid welded construction made out of Side /back/top Panels made up of minimum 0.8mm thick CRCA steel conforming to IS: 513 -2008 Grade.
- Each Steel Optimizer unit should consist of one no. single Static Drive Cover unit 4 Bay, seven nos. Twin (double) mobile unit 4 Bay and one no. Single Last Drive unit running on three (03) Rails. Each unit should have 6 loading levels formed by 5 nos. of adjustable shelves. The Steel Optimizer units are bolted to the undercarriage. The shelf panel of storage unit should be made of minimum 0.8mm thick CRCA steel confirming to IS: 513 -2008 grade to take the maximum load bearing capacity of 75 Kg uniformly distributed per shelf.
- The shelves should be mounted on support brackets & its level should be adjustable.
- The under carriage should be made with HR sheet minimum 2.5 mm thick confirming to IS 10748 - 2004 suitably fabricated using welding to take the loads.
- The Steel Optimizer shall be mounted on the set of 3 channels. Movement of units shall be achieved mechanically through a Drive wheel and '2 stage Sprocket-chain' arrangement mounted rigidly onto body side. Each movable understructure should be provided with adequate no. of **Rollers** on shaft for **driving**, adequate no. of **antifriction ball bearings** for **rolling** and adequate no. of **antifriction ball bearings** for **guiding** between rails & 'J' section.
- The bodies including shelves and undercarriages should be given seven (7) tank antirust surface treatments and finished with powder coating using epoxy polyester powder of 40microns.
- All the units should be provided with chrome plated handles. All the Steel Optimizer units should be provided with the features such as mechanical drive with a handle for mechanically assisted drive mechanism consisting of a series of sprocket and chain mechanism for smooth movement of the compactor with minimum effort. It should be fitted with safety guard which is to be engaged when entering the common aisle. This should prevent from operating system when an individual is in the working aisle. The guide track should be provided with an end stopper to avoid derailment of the units.
- All the fasteners used should be galvanized/ blakodized/ Zn plated.



ANNEXURE-II

FORMAT FOR SUBMISSION OF DETAILS OF STEEL OPTIMIZER QUOTED BY THE BIDDER

SNo	Description	Quoted Model Name/ No.*	Page No/ SI No in the Catalogue Leaflet	Confirmation to Specification "Yes/ No"	Deviation from the Specification (Please attach details)
1.	Steel Optimizer Unit				

* Please attach product catalogue.

Name & Signature of Bidder

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ANNEXURE-III (A)

QUALIFYING CRITERIA:

The BIDDER has to submit the following details for considering the technical offer:

Sl. No.	REQUIREMENTS	VENDOR's RESPONSE
1.0	Only those manufacturers, who have supplied Steel Optimizers as mentioned in the tender to reputed manufacturing / service organizations in the past three years on the date of opening of tender will be considered.	
1.1	The vendor should submit relevant Purchase Orders placed by reputed organizations for Steel Optimizers .	
1.2	Vendor shall clearly mention the name of contact person/address/telephone number/ FAX number/email address of the organization with respect to the POs submitted	
1.3	BHEL reserves the right to get feedback from their customers about the products supplied to them. In case of any adverse feedback, the vendor is liable to be rejected.	
1.4	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected. Also, BHEL may visit party's works for verification of facilities/ process available with them.	
1.5	Vendor should attach the Layout Drawing of the Steel Optimizer unit clearly indicating the dimensions.	
2.0	The vendor should have the following facilities for qualification of this tender and registration.	
2.1	ISO-9001-2008	
2.2	ISO-14001-2004	
2.3	OHASAS-18000-2007	
2.4	Certification from BIFMA. The manufacturer should have in house facility for testing products as per BIFMA derived guidelines.	
2.5	Computerized controlled through feed multi station edge preparation machine with gluing and cutting for, flush trimming, scrapping and butting.	
2.6	Computer controlled press brake for sheet metal bending.	
2.7	Converised powder coating plant with baking oven and powder applications.	
2.8	In the event of non availability of facilities mentioned under point number 2.5, 2.6 and 2.7 the offer will not be considered by BHEL.	
3.0	The vendor should score minimum 60 marks out of 100 for their qualification as per Annexure-III (A) & Annexure-III (B). The vendor should submit all necessary information /document/ Balance Sheet / Annual Report etc. in this regard as per requirement of the format.	

Name & Signature of Bidder

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ANNEXURE-III (B)

Company Profile

SNo	Thrust Area	Score	Remarks
1.	NATURE OF COMPANY	20	
	Public Limited	20	
	Private Limited/ Partnership Firm.	10	
	Sole Proprietor.	5	
2.	Similar Experience (supply & commissioning of total number of Steel Optimizers of similar or higher sizes in the last three years).	20	
	Above 500	20	
	From 200 to 499	10	
	Below 200	5	
3.	Average Annual Turnover in last 3 financial years.	20	
	More than Rs. 100 Crores.	20	
	From Rs. 51 to Rs. 100 Crores.	10	
	Less than Rs. 51 Crores.	0	
4.	Facilities and registration of manufacturer.	20	
	ISO 9001-2008.	2	
	ISO 14001-2004.	3	
	OHSAS 18000-2007.	5	
	Test Facilities as per BIFMA (Refer Annexure-III (A)).	5	
	BIFMA Certification.	5	

Service Facility

SNo	Thrust Area	Score	Remarks
1.	Dealer / Service Network from Varanasi (U.P.)	20	
	Within 150 km	15	
	Beyond 150 km	10	
	Beyond 250 km	5	

NOTE:

- 1) The minimum score required for qualification is 60 out of 100.
- 2) Alternate materials other than specification given in the tender will not be accepted.
- 3) All documents / Balance Sheets/ Annual Reports etc. in support of the above column must be submitted.
- 4) Submission of any false information shall lead to rejection of the offer of vendor.
- 5) Annual turnover of the company should be for Steel Optimizer and related items.



ANNEXURE-IV

SPECIAL TERMS & CONDITIONS

1. Any item not forming part of the Steel Optimizer and is required for installation, the same shall be supplied free of cost by the vendor.
2. The vendor shall install all the Steel Optimizer Units free of cost.
3. The order shall be placed on the vendor who is technically qualified and overall lowest.
4. Vendor may be technically disqualified
 - i) If they fail to quote for the item as per tender specifications.
 - ii) If they does not fulfil the qualifying criteria.
5. The Steel Optimizer is to be installed in the Annexe Building of HERP, Varanasi. The civil work is in the scope of BHEL. The Steel Optimizer shall be installed as per plan.
6. The offered Steel Optimizer by the bidders shall be warranted for minimum one year from the date of acceptance of the Steel Optimizer after installation at site.
7. The technical bid shall comprise of the following :
 - a) Filled in Technical quote as per Annexure-II
 - b) Technical/functional specification of the Steel Optimizer offered as per Annexure-I.
 - c) Catalogue containing image of the Steel Optimizer model name/model No. etc. as per Annexure-II.
 - d) Information related to qualifying criteria as mentioned in Annexure-III (A) & III (B).
9. The specification mentioned above are only broad descriptive in nature. However, the suppliers shall give detailed specification, drawings with standards for the Steel Optimizer & working arrangements, etc. as proposed by them along with their offer.
10. Vendor shall submit photographs of similar Steel Optimizer executed (to be enclosed along with the offer). Optimizers of bigger/smaller sizes also will be considered similar optimizers.
11. The supplier shall be responsible for maintenance of Steel Optimizer during warrantee period and supplier has to provide at least 4 free service camps after the installation of Steel Optimizer.
12. Vendor to furnish various colours shades of Steel Optimizer available with them. BHEL will decide the colour of optimizer.
13. A reference list of installations executed needs to be submitted along with the offer.

