



ISG – Bangalore

TENDER REF : 77/12/6276/BDS

DATE : 26. 12.2012

Notice inviting tender for Supply of Cable trays and its accessories for RMHS, NMDC , Nagarnar

SUB: TENDER DOCUMENT FOR SUPPLY OF CABLE TRAYS AND ITS ACCESSORIES FOR RMHS, NMDC, NAGARNAR.

SEALED OFFERS ARE INVITED FROM REPUTED & EXPERIENCED BIDDERS (MEETING PRE-QUALIFICATION CRITERIA AS MENTIONED IN ANNEX-2) FOR SUPPLY OF CABLE TRAYS AND ITS ACCESSORIES FOR RMHS, NMDC, NAGARNAR.

Please find enclosed tender documents as per following details:

Tender document no: 77/12/6276/PS Dated 26/12/2012 Comprising of following:

- Annexure – 1 : NIT
- Annexure – 2 : Prequalification Criteria and selection criteria of offers.
- Annexure – 3 : Technical specifications
- Annexure – 4 : Commercial terms and conditions
- Annexure – 5 : Integrity Pact
- Annexure – 6 : Un Priced format
- Annexure – 7 : No Deviation Format
- Annexure – 8 : Loading factor sheet
- Annexure – 9 : Price format - 2 sheets

Last date of submission of offer 17/01/2013 (14-00 Hrs).



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Notice inviting tender for Supply of Cable trays and its accessories for RMHS, NMDC , Nagarnar

Annexure - 1

1	Tender inviting Officer	S. Mani/AGM (BG-II) Bharat Heavy Electricals Ltd. Industrial Systems Group P.B. No. 1249, IISc Post Malleswaram; BANGALORE 560 012 E.Mail : sma@bhelisg.com ; Tel: 080 22184126
2	Scope of work	SUPPLY OF Cable Trays and its accessories
3	Tender document available place	BHEL web site www.bhel.com , www.bhelisg.com and Government web site http://tenders.gov.in
4	Due date and time for submission of tender	17-01-2013 by 2.00 PM
5	Place of submission of tender	ISG Tender box placed at the Reception of ISG & EPD at the following address: Bharat Heavy Electricals Limited Industrial Systems Group Opp. to Prof. CNR Rao Circle Malleswaram BANGALORE 560 012
6	Place of tender opening	Technical bid will be opened on 17-01-2013 at 3.00 PM at BHEL/ISG, Bangalore
7	Pre Qualification criteria & Selection of offers	AS PER ANNEXURE -2
8	Commercial Terms & Conditions	AS PER ANNEXURE – 4
9	IEM identified for Integrity Pact	Shri J. M. Lyngdoh , IAS (Retd.) Plot No. 144-145, Pragati Resort, Proddator Village & P.O., Shankarpally Road, Rangareddy Distt. (AP)- 500 033 Ph: 0841-7224101



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The offers shall be sent in three separate sealed envelopes as under:

COVER – 1	(TECHNO-COMMERCIAL BID) SHALL CONTAIN ALL THE ANNEX - 1 to ANNEX – 7 dully signed and stamped and enclosed in this bid
	A. <u>Techno-commercial offer should Comprises of (PART -1)</u> ANNEX - 1 to ANNEX – 7 <ol style="list-style-type: none">1. All the sheets of the documents given along with NIT/Enquiry to be dully signed and stamped and enclosed in this bid.2. Commercial terms & conditions format given with NIT/Enquiry only to be dully filled in signed and stamped on all the sheets.3. Deviation Sheet to be dully signed and stamped.4. Un price bid format only to be enclosed by dully filled in with "Quoted" against each items and columns.5. Integrity Pact Format to be dully filled in and signed and stamped.6. Other documents, drawings as asked in the NIT/Enquiry technical specifications shall be enclosed.7. All the Annexure from 1 to 7 should be dully filled, signed and stamped by the bidder
COVER-2	B. <u>Price Bid (PART -2)</u> <ol style="list-style-type: none">1. Bidders to enclose filled in price bid in the given BHEL format only. Prices shall be written both in words and figures. In the event of discrepancy between the price in figures and words, the amount entered in WORDS would be taken into consideration for evaluation and finalization of the order. All the pages of price format should be dully signed and sealed.2. Other than the price offer, no other format to be enclosed. In case if the same is found will be null and void.3. The price format enclosed should not be altered and the prices to be quoted on the same basis as mentioned in the price format.4. Prices for all the rows & columns to be filled, In case any row or column is left blank is deemed as included in the total price declared in words. In the event of discrepancy between the value and declared in words, value declared in words will be considered.
COVER-3	<u>Vendors Registration documents:</u> In case, if the vendor is not registered with us till date , such vendors are requested to register with BHEL – ISG immediately. The vendor is requested to download the vendor registration forms, from BHEL web site (i.e., bhel.com) & submit the documents along with offer in a separate cover indicating "vendor registration". Your offer will be considered only after successful vendor registration, before Price bid opening.

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SPECIAL NOTES:

1A) Above three separately sealed covers shall together be enclosed in a fourth cover (Cover-IV). All the four sealed covers shall be clearly super scribed with **COVER NO. WITH NOMENCLATURE, NAME OF THE JOB, TENDER DOCUMENT NO. and DUE DATE OF SUBMISSION.**

B) Offer & documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder. No overwriting/correction in tender documents by bidders shall be allowed.

C) All documents / Annexure submitted with the offer shall be properly annexed and placed in respective places of the offer as per enclosure list mentioned in the covering letter. BHEL shall not be responsible for any missing documents.

2.0 Offers satisfying the Pre-Q criteria and Techno Commercial conditions will be sent for Customer's acceptance and will be considered for further processing based on their approval.

3.0 BHEL reserves the right to accept or reject any or all offer without assigning any reasons thereof. BHEL also reserve the right to cancel the offer wholly or partly without assigning any reason thereof. BHEL also reserve the right to split the job. BHEL also reserve the right to reject the bidder with unsatisfactory past performance in the execution of a contract. BHEL's decision in this regard shall be final & binding.


4.0 In case number of bidders are Four or more then BHEL reserves the right to split the order between L1 , L2 & L3 bidder on around 50:30:20 basis after getting L2 & L3 bidders acceptance of the counter offered L1 price. In case L3 bidder is not accepting the L1 price but L2 bidder accepts L1 price then order splitting may be 60:40 amongst L1 & L2 bidders.

Otherwise i.e in case no. of bidders are not Four or more then BHEL reserves the right to split the order between L1 / L2 bidder on around 60:40 basis after getting L2 bidders acceptance of the counter offered L1 price.

5. Rejection of offers will be done on the following:

1. If any offer received after the due date and time will be rejected.
2. Incomplete offers, i.e., not submitting the documents as mentioned above and not complying with NIT/Enquiry conditions.
3. Non-compliance to our delivery schedule as indicated in the NIT/Enquiry.
4. Any deviations beyond the BHEL requirements mentioned in our commercial terms and conditions or deviations taken out of the loading factor limits enclosed with the NIT/Enquiry.
5. In the event of customer not approved the vendors, such offers will be rejected.

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 <p>ISG - BANGALORE</p>	<p align="center">PREQUALIFICATION CRITERIA For Cable Tray & Cable Tray Accessories</p>	<p align="center">SPECIFICATION NO. IS-1-11-2008/025</p>
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ANNEXURE - II

PRE QUALIFICATION CRITERIA

Pre-Qualification Criteria for G.I Cable Trays and Accessories for the tender 'Raw material Handling System (Package No. 01) of NMDC

I. Eligibility Criteria for G.I Cable Trays and Accessories:

A) Techno-commercial:

- i) Bidder should have successfully designed, manufactured, supplied the following G.I Cable trays and its accessories e.g. coupler plates, bends (machine bent), Tee, crosses etc. as per applicable Indian standards.
 - a) GI Ladder type trays of sizes 300mm, 450 mm & 600 mm width.
 - b) GI Perforated type trays of sizes 150mm, 300mm, 450 mm & 600 mm width.

ii) Bidder should have supplied the above G.I cable trays & accessories totaling not less than Rs 3 crores per year during financial years 2010-11,2011-12 & 2012-13 (till date)

- II. BHEL-ISG reserves the right to assess the capabilities and capacity of the Bidder / Bidder's associates to perform the contract, should the circumstances warrant such assessment in the overall interest of the customer.
- III. BHEL-ISG reserves the right to reject any or all bids or cancel/withdraw the Bids without assigning any reason whatsoever and in such case no bidder/ intending bidder shall have any claim arising out of such action.
- IV. Acceptance of offers is subjected to End customer's approval of vendors. Price bids of customer approved vendors only will be opened/allowed for participating in reverse auction.

Customer APPROVED/ NOT APPROVED shall be communicated to vendors before price bid opening/reverse auction.

V. Submission of credentials:

Vendors to submit the following credentials for End customer approval.

- 1. List of supply of G.I cable trays for SAIL and non SAIL Plants with copy of PO's with value.
- 2. End user certificates regarding satisfactory operation of GI cable trays in Raw Material Handling System and/or any other plants.
- 3. List of supply of GI cable trays through BHEL with PO reference and value along with satisfactory performance certificates.

Important Notes:

- 1. **VENDORS NOT SUBMITTING THE ABOVE CREDENTIALS ALONG WITH THE OFFER ARE LIABLE TO GET REJECTED WITH OUT ANY FURTHER CORRESPONDENCE.**
- 2. **Bidders shall submit the supporting documents (reference list, Purchase order copies, customer certificates, Audited Balance sheets, Profit & Loss account and Banker's Solvency Certificate etc.,) for satisfying the above requirements**



ISG - BANGALORE

Enquiry Specification for
GI Cable Tray & Cable Tray AccessoriesSPECIFICATION NO.
IS-1-11-2008/025

Annex - 3

Name of Project	RAW MATERIAL HANDLING SYSTEM FOR 3MTPA INTEGRATED STEEL PLANT AT NAGARNAR, JAGDALPUR, CHHATTISGARH
Name of Customer / Owner	M/S NMDCLTD

TECHNICAL SPECIFICATION FOR GI CABLE TRAYS & CABLE TRAY ACCESSORIES

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Prepared by Name: RAJ KUMAR RAKHRA Signature:	Checked by Name: SUMAN BANRA Signature:	Approved by Name: R BABU Signature:
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ISSUED BY: BG II	REV NO. 00	DATE OF ISSUE: 26-12-2012	SHEET 1 OF 17
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Annex - 3

SECTION - I

1.0 GENERAL PROJECT INFORMATION:

National Mineral Development Corporation (NMDC) is setting up a Green field integrated steel plant in Nagarnar, Chhattisgarh, with a production capacity of 3.0 MTPA.

For the integrated steel plant all Raw material required for the blast Furnace, Sinter Plant, Coke ovens, lime stone/Dolomite Calcinations plant as well as interplant transportation of finished sinter, Coke, fines generated in coke ovens and Blast furnaces, Granulated slag Transportation etc. shall be covered in the Raw Material Handling System (RMHS). **BHEL is the EPC contractor for the RMHS Package and M/s NMDC has appointed M/S Mecon as the owners Engineer (Consultant) for the project.**

1.1 Site Conditions

In absence of Meteorological details of Nagarnar, data of nearest Meteorological Station Jagadapur are given below:

latitude /Longitude	29°05' Latitude, 82°10' Longitude.
Average altitude of the land	553.0 m above MSL
Absolute maximum avg. Temperature	46.1° C
Absolute minimum avg. Temperature	2.8° C
Design Ambient Temperature	50° C
Maximum Relative Humidity	87 %
Minimum Relative Humidity	27 %
Design Relative Humidity	80 %
Mean Wind speed	10 Kmph
Design wind Speed	50 m/s
Maximum Rainfall	259.7mm in 24 hrs
Ambient Air Quality	Residential

Note: Temperature inside shop premises is generally taken as 5°C above ambient, unless otherwise specified.

1.2 Power Supply Characteristics

Parameter	HT
Power Supply	6.6 K.V, 3phase, 50 Hz, 3 wire
Voltage variations	+ 10% - 10%



Annex-3

Frequency variation	+ 6% - 6%
System neutral	solidly grounded
System short circuit level	40 kA rms. for 3 second
Parameter	LT
Power Supply	415V, 3phase, 50 Hz, 4 wire
Voltage variations	+ 10% - 10%
Frequency variation	+ 6% - 6%
System neutral	solidly grounded
System short circuit level	50 kA rms. at 415V for 1 second

SECTION - II**Applicable Standards**

All equipments/system shall conform to the latest edition of the following standards and codes. Other internationally acceptable standards/codes, which ensure equal or higher performance than those specified, shall also be accepted. Nothing in this specification shall be constructed to relieve the contractor of the required statutory responsibility..

American Iron & Steel Institute	AISI
American Society for Mech. Engineers	ASME
American Society for Testing & Materials	ASTM
American Wire Gauge	AWG
Institute of Electrical & Electronic Engineers	IEEE
Instrument Society of America	ISA
National Electrical Code	NEC
National Electrical Code	NEC
National Electrical Manufacturers Association	NEMA
United States of America Standards	USAS
Bureau of Indian Standards	BIS
Conveyor Equipment Manufacturers Association	CEMA
Dimensions of shaft ends	IS:3668
General plan for spur and helical gears	IS:3681
Selection of standard worm and helical gear boxes	IS:7403

The Cable Tray & Accessories covered by this Specification shall be designed and manufactured in accordance with the latest revision of Indian Standards. Wherever Indian Standards are not available, British Standards, American Standards, DIN, or any other equivalent / superior Standards shall be followed. Any amendments / revisions in above standards that may be in force during the period of execution shall also be taken into consideration.

The Cable Tray & Accessories shall meet all the requirements of the 3.0 MTPA RMHS PLANT at NMDC, NAGARNAR. It shall be the supplier's sole responsibility to ensure



that each component is adequate in rigidity, strength of heavy duty construction and of first class quality to guarantee against failure or major repair, assuming proper maintenance and usage.

The tray and hardware shall be manufactured and tested in accordance with following

1. IS:4759 - 1984
2. IS 1079 - Grade O
3. IS 1852
4. IS: 1573 - 1985
5. IS: 2633 - 1986
6. IS: 8500 - 1992
7. IS: 1367 - 1983
8. IS: 2629 - 1985
9. IS: 2633 - 1986
10. Indian Electricity Rules 1956

This above list is not exhaustive. Standards not listed above but are applicable also to be followed to meet requirement.

SECTION – III

PRE QUALIFICATION CRITERIA

Pre-Qualification Criteria for G.I Cable Trays and Accessories for the tender 'Raw material Handling System (Package No. 01) of NMDC

I. Eligibility Criteria for G.I Cable Trays and Accessories:

A) Techno-commercial:

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 - a) GI Ladder type trays of sizes 300mm, 450 mm & 600 mm width.
 - b) GI Perforated type trays of sizes 150mm, 300mm, 450 mm & 600 mm width.
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Important Notes:

1. **VENDORS NOT SUBMITTING THE ABOVE CREDENTIALS ALONG WITH THE OFFER ARE LIABLE TO GET REJECTED WITH OUT ANY FURTHER CORRESPONDENCE.**
2. **Bidders shall submit the supporting documents (reference list, Purchase order copies, customer certificates, Audited Balance sheets, Profit & Loss account and Banker's Solvency Certificate etc.,) for satisfying the above requirements**

SECTION – IV**SCOPE OF SUPPLY**

The Scope of Supply includes Design, manufacture, Testing, Inspection and dispatching of Hot dip Galvanized pre fabricated Cable Trays with complete accessories as per ANNEXURE-IV. The following is the detailed Scope of supply:-

Sl.No.	Description	Quantity
(A)	G.I Ladder type cable tray	
1	600mm width G.I cable tray , Per Unit length shall be 2.5 mtrs	18000 Nos.
2	600mm width – Horizontal type 90 deg G.I bend.	900 Nos.
3	600mm width – Vertical (outside) G.I bend.	900 Nos.
4	600mm width - Vertical (inside) G.I bend.	900 Nos.
5	600mm width – Tees (horizontal G.I bends)	900 Nos.
6	600mm width – G.I Crosses	900 Nos.
7	600mm width – G.I Side coupler plate with 04 sets of fixing hardware	59400 Nos.
8	450mm width G.I cable tray , Per Unit length shall be 2.5 mtrs	8000 Nos.
9	450mm width – Horizontal type 90 deg G.I bend	400 Nos.
10	450mm width – Vertical (outside) G.I bend.	400 Nos.
11	450mm width - Vertical (inside) G.I bend	400 Nos.
12	450mm width – Tees (horizontal G.I bends)	400 Nos.
13	450mm width – G.I Crosses	400 Nos.
14	450mm width – G.I Side coupler plate with 04 sets of fixing hardware	26400 Nos.
15	300mm width G.I cable tray , Unit length = 2.5 mtrs	7000 Nos.
16	300mm width – Horizontal type 90 deg G.I bend	350 Nos.
17	300mm width – Vertical (outside) G.I bend.	350 Nos.
18	300mm width - Vertical (inside) G.I bend	350 Nos.



19	300mm width – Tees (horizontal G.I bends)	350 Nos.
20	300mm width – G.I Crosses	350 Nos.
21	300mm width – G.I Side coupler plate with 04 sets of fixing hardware	23100 Nos.
(B)	G.I Perforated Type Cable tray	
1	600mm width G.I cable tray , Per Unit length shall be 2.5 mtrs	6000 Nos.
2	600mm width - Horizontal type 90 deg G.I bend	300 Nos.
3	600mm width – Vertical (outside) G.I bend	300 Nos.
4	600mm width – Vertical (inside) G.I bend	300 Nos.
5	600mm width – Tees (horizontal G.I bends)	300 Nos.
6	600mm width – G.I Crosses	300 Nos.
7	600mm width – G.I Side coupler plates with 04 sets of fixing hardware	19800 Nos.
8	450mm width G.I cable tray , Per Unit length shall be 2.5 mtrs	3000 Nos.
9	450mm width - Horizontal type 90 deg G.I bend	150 Nos.
10	450mm width – Vertical (outside) G.I bend	150 Nos.
11	450mm width – Vertical (inside) G.I bend	150 Nos.
12	450mm width – Tees (horizontal G.I bends)	150 Nos.
13	450mm width – G.I Crosses	150 Nos.
14	450mm width – G.I Side coupler plates with 04 sets of fixing hardware	9900 Nos.
15	300mm width G.I cable tray , Per Unit length shall be 2.5 mtrs	2500 Nos.
16	300mm width - Horizontal type 90 deg G.I bend	125 Nos.
17	300mm width – Vertical (outside) G.I	125 Nos.
18	300mm width – Vertical (inside) G.I bend	125 Nos.
19	300mm width – Tees (horizontal G.I bends)	125 Nos.
20	300mm width – G.I Crosses	125 Nos.
21	300mm width – G.I Side coupler plates with 04 sets of fixing hardware	8250 Nos.
22	150 mm width G.I cable tray , Per Unit length shall be 2.5 mtrs	2500 Nos.
23	150 mm width - Horizontal type 90 deg G.I bend	125 Nos.
24	150 mm width – Vertical (outside) G.I bend	125 Nos.
25	150 mm width – Vertical (inside) G.I bend	125 Nos.
26	150 mm width – Tees (horizontal G.I bends)	125 Nos.
27	150 mm width – G.I Crosses	125 Nos.
28	150 mm width – G.I Side coupler plates with 04 sets of fixing hardware	8250 Nos.

Notes:

1. Any item required for the completeness of the system but not mentioned explicitly shall be included in the offer.
2. The dimensional drawings, data sheets/ catalogues and typical drawings shall be submitted along with the offer.
3. Vendor to quote price for the above items as per the Price Format only.



4. Un priced Bid duly signed shall be enclosed along with Technical offer. Offer without un priced bid shall be due for rejection.
5. Technical deviations if any shall be brought out clearly by the Vendor in their offer otherwise it will be presumed that the bids are in line with the technical specifications.
6. Cable tray shall be supplied with unit length of 2.5 mtrs.
7. Each set of fixing hardware is with one M8X25 long hex. Bolt, nut, plain & spring washer.
8. All bolts, nuts & washers etc. shall be with min. 10 microns zinc passivated as per approved drawing.

SECTION - V

TECHNICAL SPECIFICATION

All Technical Specifications shall be as per drawings enclosed in Annexure - IV

1. Galvanizing shall be uniform, clear, smooth and free from acid spots. In case the galvanizing of any of the samples is found defective; the entire batch of steel will have to re-galvanized at supplier's cost.
2. The amount of zinc deposited shall not be less than 610 gms per square meter of surface area & in addition the thickness of the zinc deposit at any spot whatsoever, shall not be less than 86 microns. Customer reserves the right to measure the thickness of zinc deposit by elcometer or any other instrument & reject any component, which shows thickness of zinc at any location to be less than 86 microns.
3. All fabrication shall be free from sharp edges.
4. Cable trays and accessories shall be hot dip galvanized as per IS 2629. Galvanization shall not be less than 610 grams/sq. mtr. Zinc deposit shall not be less than 86 microns.
5. All bolts, nuts & washers shall be with min. 10 microns Zinc passivated.
6. Perforated Cable tray : 2.0 mm thick, M.S Sheet
7. Ladder cable tray: ISA 50X50X6 M.S angle with 25X5 mm thick MS flat.
8. Couplet plate: Min: 3mm thick, M.S falt Hot dip galvanized.
9. Tolerances: Length: +/- 10, W: +/- 3, H: +/- 2, T: +/- .01
10. All dimensions are in mm.

PACKING AND TRANSPORTATION



The equipment ready for dispatch shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit. The customer / inspector shall have the right to insist for completion of works and shops before dispatch of materials for transportation.

Annexure - 3

SECTION – VI**INSPECTION AND TESTING****Test and Inspection:****ROUTINE TEST FOR TRAY:**

Test shall be conducted as per relevant IS standard and Approved as Noted QAP.

TEST CERTIFICATE:

Following Test Certificates shall be submitted during inspection for review:

- Welding Test certificates for tray
- Material TC
- Galvanizing

Certified reports of all tests carried out at works shall be furnished for approval of the BHEL/ NMDC.

Inspection:

Inspection call shall be given along with internal test certificate at least 1 week in advance.

SECTION – VII**DOCUMENTATION**

The following Drawings / Documents shall be submitted during the course of detailed engineering / erection / commissioning / testing as applicable.

Sl.No	Description	Category	Time Schedule	No. of copies
1.	GA/ OGA/ BOM of Cable Tray Drawing/ Document	For approval	Within 7 days of LOI	12
2	Quality Assurance Plan	For approval	Within 7 days of LOI	12
3	Material and Galvanising	For approval	Within 7 days of	12

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	certificate		LOI	
2.	Test Certificates/ Inspection reports	For review	Along with Inspection Call	12
3.	Storage instructions for long period storage	For information	Final Documentation	12
4.	Erection instructions	For information	Final Documentation	12
6.	Catalogues, Operation and Maintenance manuals, Reproducible Tracing Films (RTF's)	For information	Final Documentation	12

Annexure - 3

Notes:

1. All drawings, documents and catalogues shall be available in soft copy.
2. Manually prepared drawings are not acceptable
3. Soft copy in CD-ROM and reproducible tracings of all drawings / documents shall be submitted along with final / as-built submission
4. For all technical tables, diagrams, calculations, results, drawings, test data and scales adopted in the design the standard international unit system (SI) as per International Standardization Organization (ISO) shall be uniformly employed.
5. All engineering documents and drawings shall be of international A series size, i.e., of A0, A1, A2, A3 and A4.

SECTION - VIII**INFORMATION TO BE FURNISHED BY THE VENDOR**

The following information / documents shall be specifically submitted by the bidder along with the bid in addition to the other information as called for in various sections of this specification:

1. GA/ OGA for Perforated and Ladder Cable Tray to be submitted along with the Offer.
2. Un priced Bid format – strictly in the format given in Annexure - II.
3. Quality Assurance Plan to be submitted along with the Offer.
4. Galvanizing certificate
5. Separate list of deviations, if any. Otherwise, bidder to categorically confirm that there are no deviations.

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1 2 3 4 5 6 7 8

ANNEXURE - IV

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 It must not be used directly or indirectly in any way detrimental to the interest of the company.

PROJECT DRAWING NO. : NMDC/BHEL/01/29/BE/--/163

INVENTORY NO.

FORM 66-301A

CABLE TRAYS AND ACCESSORIES

(USED IN CABLE TUNNEL, CABLE TRENCH,
OVERHEAD STRUCTURES & BRIDGES & INCOMING ROUTES)

FOR REFERENCE ONLY 3 sheets

ms
 23/8/12
 Mahendra Verma
 Mecon Ltd.

JOB NO.	IS . 1 . 11 . 2008	SUBMITTED FOR	<input checked="" type="checkbox"/> APPROVAL	INFORMATION	REFERENCE	RECORD	CONSTRUCTION
DIR NO.		NMDC LIMITED 3.0 MTPY STEEL PLANT (NISP) AT NAGARNAR, CHHATTISGARH RAW MATERIAL HANDLING SYSTEM (PACKAGE 01)					
STATUS		BHARAT HEAVY ELECTRICALS MECON LIMITED					
DISTRIBUTION		BHARAT HEAVY ELECTRICALS LTD INDUSTRIAL SYSTEMS GROUP, BANGALORE					
TO		CABLE TRAYS AND ACCESSORIES (USED IN CABLE TUNNEL, CABLE TRENCH, OVERHEAD STRUCTURES & BRIDGES & INCOMING ROUTES)					
No. OF		DESIGNED	Shreedhara	SCALE	N.T.A.		
		DRAWN	Shreedhara	DIMENSIONS	SHEET 0 OF 2		
		CHECKED	H.U.Y	SCALE	N.T.A.		
		APPROVED	DATE: 14.07.12	BHEL DRAWING NO. : IS-3-DC-669-506-E004			
				PROJECT DRAWING NO. : NMDC/BHEL/01/29/BE/--/163			
REV.	DATE	REVISION & DESCRIPTION	DRAWN	CHECKED	APPR.		REV. 01

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IRV

Annex-3

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 IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

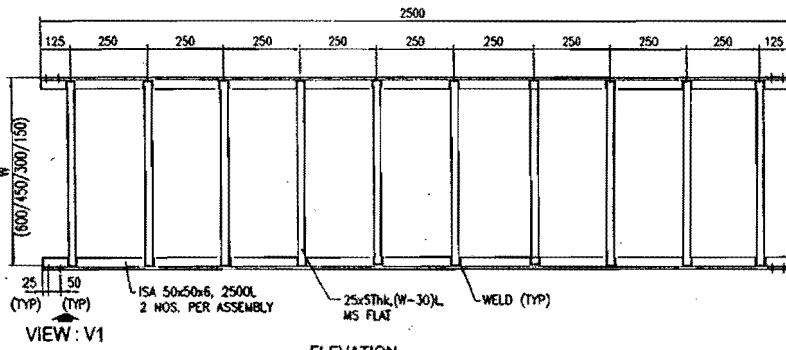
PROJECT DRAWING NO. : NMDC/BHEL/01/29/BE/--/163

INVENTORY NO.

FORM 66-301A

FIRST ANGLE PROJECTION

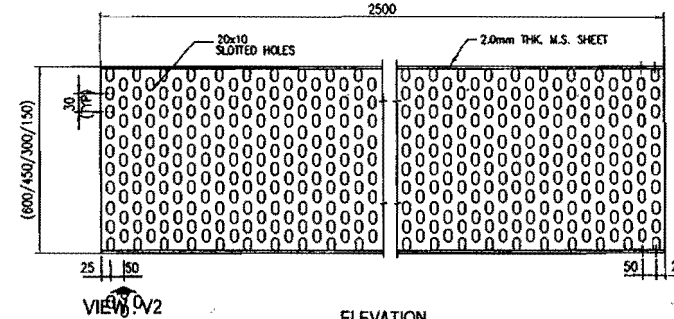
ALL DIMENSIONS ARE IN MM.



VIEW : V1

ELEVATION
LADDER TYPE CABLE TRAY

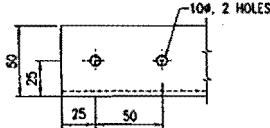
SIDE VIEW



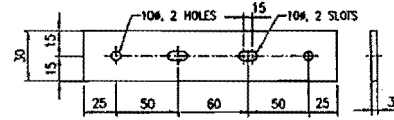
VIEW : V2

ELEVATION
PERFORATED TYPE CABLE TRAY

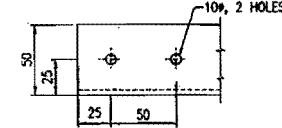
SIDE VIEW



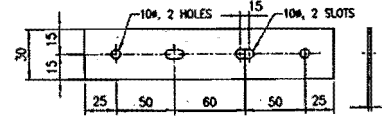
VIEW : V1



SIDE COUPLER PLATE
(FOR LADDER CABLE TRAY)



VIEW : V2



SIDE COUPLER PLATE
(FOR PERFORATED CABLE TRAY)



- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. PERFORATED CABLE TRAY :- 2.0mm THICK. M.S. SHEET.
 3. LADDER CABLE TRAY :- ISA 50x50x6 MS ANGLE WITH 25x5mm THK MS FLAT
 4. COUPLER PLATE:- MM. 3mm THICK. M.S. FLAT HOT DIP GALVANISED.
 5. TOLERANCES : LENGTH- ±10, W- ±3, H- ±2, T- ±0.1
 6. 8 SETS OF FIXING HARDWARES FOR CABLE TRAY & SIDE COUPLER PLATE (EACH SET WITH ONE M8x25 LONG HEX. BOLT, NUT, PLAIN & SPRING WASHER)
 7. CABLE TRAYS AND ACCESSORIES SHALL BE HOT DIP GALVANISED AS PER IS 2629. GALVANIZATION SHALL NOT BE LESS THAN 610 GRAMS/SQ.MTR. ZINC DEPOSIT THICKNESS SHALL NOT BE LESS THAN 85 MICRONS.
 8. ALL BOLTS, NUTS & WASHERS ETC. SHALL BE WITH MIN. 10 MICRONS ZINC PASSMATED.
 9. CABLE TRAY WILL BE WELDED TO THE SUPPORTING STRUCTURE. AFTER WELDING ZINC RICH PAINT SHALL BE APPLIED.

JOB NO.	IS . 1 . 11 . 2006	SUBMITTED FOR	APPROVAL	INFORMATION	REFERENCE	RECORD	CONSTRUCTION
DIR NO.		NMDC LIMITED 3.0 MTPY STEEL PLANT (NISP) AT NAGARNAR, CHHATTISGARH RAW MATERIAL HANDLING SYSTEM (PACKAGE 01)					
STATUS		MECON LIMITED BHARAT HEAVY ELECTRICALS LTD INDUSTRIAL SYSTEMS GROUP, BANGALORE					
DISTRIBUTION		CABLE TRAYS AND ACCESSORIES (USED IN CABLE TUNNEL, CABLE TRENCH, OVERHEAD STRUCTURES & BRIDGES & INCOMING ROUTES)					
TO		DESIGNER	Shreedhara				
No. of		DRAWN	Shreedhara				
		CHECKED	H.U.Y				
		APPROVED	SIGN. : R.Bh	PROJ. :	DIMENSIONS	SCALE	M.S.
			DATE: 14.07.12	BHEL DRAWING NO.	IS-3-DG-659-506-E004		SHEET 1 OF 2
REV.	DATE	REVISION & DESCRIPTION	DRAWN/CHECKED	APPR.	PROJECT DRAWING NO.	NMDC/BHEL/01/29/BE/--/163 REV. 01	

16/3/17

Annex-3

16/3/17

APR 2017

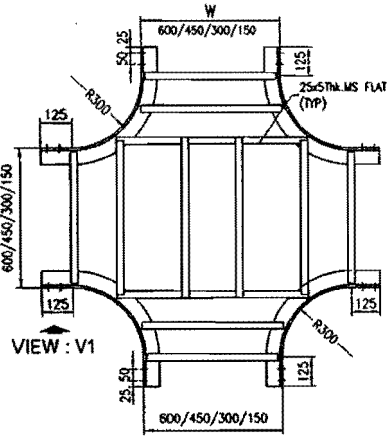
FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN MM.

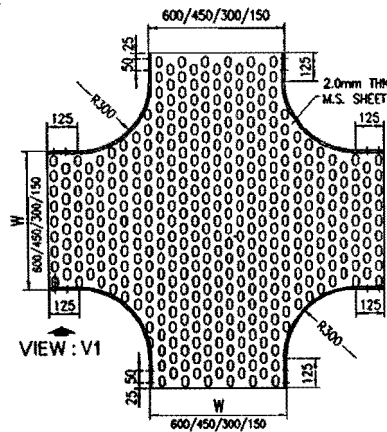
COPYRIGHT AND CONFIDENTIAL
 The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED
 It must not be used directly or indirectly in any way detrimental to the interest of the company.

PROJECT DRAWING NO. : NMDC/BHEL/01/29/BE/--/163

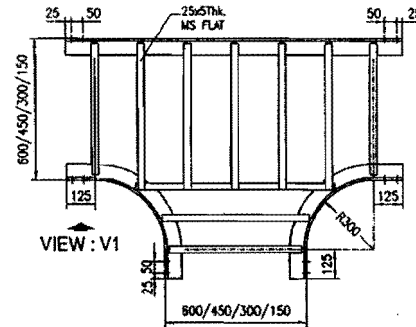
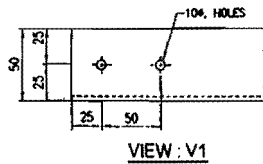
INVENTORY NO.



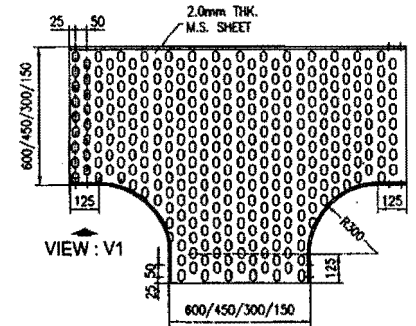
CROSS
(LADER TYPE TRAYS)



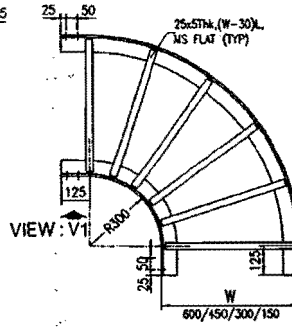
CROSS
(PERFORATED TYPE CABLE TRAYS)



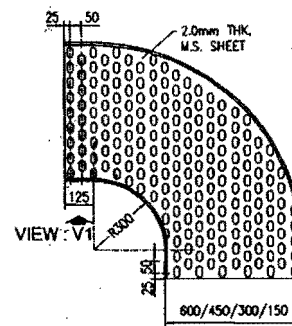
HORIZONTAL BEND (T)
(LADER TYPE TRAYS)



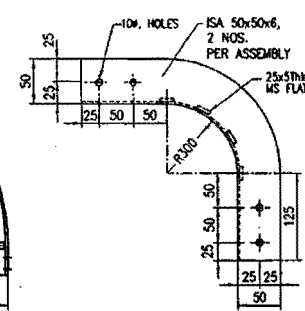
HORIZONTAL BEND (T)
(PERFORATED TYPE CABLE TRAYS)



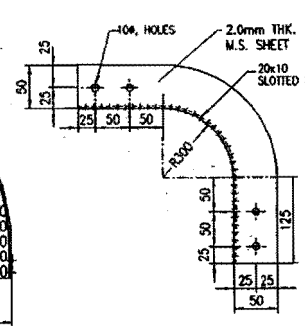
HORIZONTAL BEND (90°)
(LADER TYPE TRAYS)



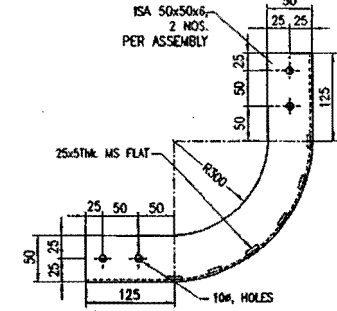
HORIZONTAL BEND (90°)
(PERFORATED TYPE CABLE TRAYS)



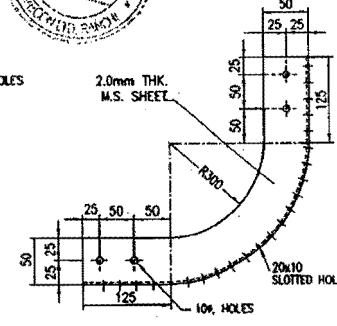
VERTICAL OUTSIDE BEND
(LADER TYPE TRAYS)
(FOR 600/450/300/150 WIDE TRAY)



VERTICAL OUTSIDE BEND
(PERFORATED TYPE CABLE TRAYS)
(FOR 600/450/300/150 WIDE TRAY)



VERTICAL INSIDE BEND
(LADER TYPE TRAYS)
(FOR 600/450/300/150 WIDE TRAY)



VERTICAL INSIDE BEND
(PERFORATED TYPE CABLE TRAYS)
(FOR 600/450/300/150 WIDE TRAY)



JOB NO.	IS . 1 . 11 . 2008	SUBMITTED FOR	APPROVAL	INFORMATION	REFERENCE	RECORD	CONSTRUCTION
DIR NO.		NMDC LIMITED 3.0 MTPY STEEL PLANT (NSP) AT NAGARNAR, CHHATTISGARH RAW MATERIAL HANDLING SYSTEM (PACKAGE 01)					
STATUS		मकन मसपस MECON LIMITED BHARAT HEAVY ELECTRICALS LTD INDUSTRIAL SYSTEMS GROUP, BANGALORE					
DISTRIBUTION		DESIGNED: Shreedhara DRAWN: Shreedhara CHECKED: H.U.Y. CABLE TRAYS AND ACCESSORIES (USED IN CABLE TUNNEL, CABLE TRENCH, OVERHEAD STRUCTURES & BRIDGES & INCOMING ROUTES)					
TO		SDR : R.Bhu SCALE: N.T.S. SHEET 2 OF 2					
No. of		APPROVED: DATE: 14.07.12 BHEL DRAWING NO. : IS-3-DC-669-506-E004					
REV.	DATE	REVISION & DESCRIPTION	DRAWN/CHECKED	APPR.	PROJECT DRAWING NO.	: NMDC/BHEL/01/29/BE/--/163 REV. 01	

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TR Face

Annex-3

Equipment : CABLE TRAYS AND CABLY TRAY ACCESSORIES
 Project Name : RAW MATERIAL HANDLING SYSTEM (PACKAGE-1)

Annex - 4

Commercial terms and Conditions

Sl.No	Clause	BHEL'S Requirement	Acceptance/Remarks
1	PRICE	Firm for entire period of contract , FOR Site Basis, inclusive of all taxes and duties , packing, forwarding and freight charges. Insurance by BHEL. Any new taxes/duties imposed by Government after plaement of PO shall be reimbursed as per actuals on documentry evidence. Price evaluation is on Ex-works price including packing & forwarding + Freight charges+ loading charges if any due to non compliance to our commercial terms & conditions.	
2	SALES TAX	SALES TAX AND OTHER TAXES: To be included in the price. However, rate considered along with the amount included in the price to be indicated separtely head wise in the price bid. Sales tax shall be paid at extra / actuals as prevailing at the time of despatch against issue of "C" Form by BHEL in exchange of "E1" form from vendor. Please indicate the present rate of sales tax considered.	
3	EXCISE DUTY	Present rate of ED + Cess to be indicated. ED + Cess on Ed is payable extra as per rates applicable at the time of despatch (within P.O. delivery period) against original buyer's copy of EDGP/INVOICE cum EDGP. Transporter's copy of EDGP/EDGP cum INVOICE must be sent alongwith the consignment.	
4	FREIGHT	Equipment to be despatched by road on freight prepaid and on door delivery basis. Consignee copy of LR to be sent with truck. Freight Charges to be indicated separtely in price bid only. This will be reimbursed at actuals against documentary proof (original of stamped	

Prepared By

Checked & Approved By

SASIKALA P

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Equipment : CABLE TRAYS AND CABLE TRAY ACCESSORIES
 Project Name : RAW MATERIAL HANDLING SYSTEM (PACKAGE-1)

Annex-4

Commercial terms and Conditions

Sl.No	Clause	BHEL'S Requirement	Acceptance/Remarks
		receipt from transporter) limited to the amount indicated.	
5	TRANSIT INSURANCE	Will be arranged by BHEL/Customer (Advance intimation to be given by supplier)	
6	TERMS OF PAYMENT	a) 90% Basic+100% Taxes & duties within 60days from the date of receipt of complete set of original dispatch documents including test reports & performance bank guarantee (if applicable) to BHEL. b) Balance 10% within 30days of receipt of materials at site & proof of supply of complete requirements against a supplementary invoice.	
7	DELIVERY	16 Weeks from the date of drawing approval & manufacturing clearance.	
8	GUARANTEE PERIOD	12 months from the date of commissioning or 18 months from the date of last supply which ever is earlier.	
9	LIQUIDATED DAMAGES	Any delay in PO delivery will attract LD at 0.5% of the order value per week of delay and prorata for a part of week subject to maximum 5% of the total order value. Date of inspection call along with internal TCs will be taken as delivery date for LD purpose, provided the material is found ready and acceptable during inspection.	
10	PBG	PBG for 10% of order value is to be submitted by successful vendor and kept valid up to the guarantee period with a claim period of 3 Months more than the Guarantee Period. This BG is to be submitted along with First Invoice or earlier by successful vendor from the list of BHEL consortium banks only as	

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Equipment : CABLE TRAYS AND CABLY TRAY ACCESSORIES
 Project Name : RAW MATERIAL HANDLING SYSTEM (PACKAGE-1)

Annex - 4

Commercial terms and Conditions

Sl.No	Clause	BHEL'S Requirement	Acceptance/Remarks
		enclosed. PBG format and guidelines for submitting PBG are enclosed in "Annexure - PBG". PBG should come directly through bank only to us.	
11	INSPECTION	At manufacturer's works prior to despatch by BHEL/Customer/Consultant. Inspection call with internal TC's to be given 7 days in advance.	
12	SPLIT ORDER	1) In case number of bidders are four or more then BHEL reserves the right to split the order between L1, L2 & L3 bidder on around 50:30:20 basis after getting L2 & L3 bidders acceptance of the counter offered L1 price. In case L3 bidder is not accepting the L1 price but L2 bidder accepts L1 price then order splitting may be 60:40 amongst L1 & L2 bidders. 2) Otherwise i.e in case no. of bidders are not Four or more then BHEL reserves the right to split the order between L1/L2 bidder on around 60:40 basis after getting L2 bidders acceptance of the counter offered L1 price.	
13	NO OF CONSIGNMENTS	As per requirement.	
14	ARBITRATION	Subject to Bangalore Jurisdiction only based on THE ARBITRATION AND CONCILIATION ACT 1996.	
15	RISK PURCHASE	In case of default/ late delivery, purchaser reserves his right to make alternate arrangement / procurement at supplier's risk and cost.	
16	DRAWING SUBMISSION	Drawing submission by supplier shall be within 1 weeks from date of PO and drawing approval by BHEL within 1 week of submission.	

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Equipment CABLE TRAYS AND CABLY TRAY ACCESSORIES
 Project Name : RAW MATERIAL HANDLING SYSTEM (PACKAGE-1)

Annex-4

Commercial terms and Conditions

Sl.No	Clause	BHEL'S Requirement	Acceptance/Remarks
17	VALIDITY OF OFFER	90 days from the date of technical bid opening.	
18	QUANTITY VARIATION	Prices shall be valid for ordering additional quantities upto 25% within delivery period of PO.	
19	SSI UNIT	Indicate whether SSI unit or not.	
20	REG NO & VALIDITY	Attach the copy of the same.	
21	CONSIGNEE ADDRESS	NMDC, Nagarnar, Chattisgarh.	
22	LOCATION OF SITE	NMDC, Nagarnar, Chattisgarh.	
23	TAXES & DUTIES	Sales Tax/ VAT / Service Tax and any other local taxes like Octroi, entry tax etc are to be included in the price and are to be seperately shown in the offer. Variations in taxes including new taxes/ duties as may be payable during the contract execution stage shall be payable extra on production of documentary proof. "E1" Form to be submitted by supplier to BHEL for availing "C" Form.	
24	OTHER TERMS	A) The Price bids shall be evaluated based on Basic Price including packing & forwarding charges + Freight charges + Loading charges if any due to non compliance to our NIT term. B) Price Bid to be submitted in a separate envelope strictly as per the price format enclosed to this enquiry. Un Price copy of Price Bid along with dully filled in format of Commercial Terms and Conditions (CTC) to be submitted in another separate envelope for BHEL	

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Equipment : CABLE TRAYS AND CABLE TRAY ACCESSORIES
 Project Name : RAW MATERIAL HANDLING SYSTEM (PACKAGE-1)

Annex - 4

Commercial terms and Conditions

Sl.No	Clause	BHEL'S Requirement	Acceptance/Remarks
		<p>evaluation.</p> <p>C) Bidder to submit their quotation as per our enquiry confirming all points in this commercial terms and conditions (CTC) other wise your offer shall be liable for rejection. In case any deviations are in evitable from BHEL requirements the same has to be clearly stated in the deviation format enclosed. In case, any terms and conditions are not accepted, your offer likely to be rejected/loaded as per the loading factor sheet enclosed to this enquiry. Hence, confirm the terms and conditions as stipulated in the NIT/Enquiry.</p> <p>D) Please send this filled in terms and conditions format alongwith your acceptance by responding to all the clauses in this format dully signed with seal. Acceptance of CTC in any other form is not possible and such offers are liable for rejection.</p> <p>E) BHEL reserves the right to reject bidders with unsatisfactory past performance.</p> <p>F) Bidders to confirm that they will comply with all statutory requirements and no liability will be passed on to BHEL on any account.</p> <p>G) If any column or row not filled by the vendor, shall be treated as accepted / included.</p>	
25	REVERSE AUCTION	"BHEL reserves the right to go for a Reverse Auction instead of Opening the submitted sealed bid, which will be decided after technical evaluation". In case the Reverse Auction fails or due to any other reason, BHEL reserves the right to open the sealed price bids in public and	

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22/38

Equipment : CABLE TRAYS AND CABLY TRAY ACCESSORIES
 Project Name : RAW MATERIAL HANDLING SYSTEM (PACKAGE-1)

Annex-4

Commercial terms and Conditions

Sl.No	Clause	BHEL'S Requirement	Acceptance/Remarks
		finalise the placement of order accordingly. Non Acceptance of this caluse by the vendor will be deemed to be for rejection of offer.	
26	REJECTION OF OFFER	BHEL reserves the right to reject the offer, in case the bidders past performance in any of the BHEL's previous contract' is not found satisfactory.	
27	LOADING FACTOR	Any Deviation to BHEL Requirements mentioned under Commercial Terms & Conditions enclosed to the Enquiry shall be loaded while evaluating , comparison of prices and L1 will be derived . Basis for Loading will be as per the guide lines prescribed in the Loading Factor Sheet Enclosed to the Enquiry. Acceptance of the vendor is must for this Clause, if not the same will be rejected.	
28	ECS PAYMENT	Payment will be made by e-payment only and for which the vendors are to provide the following information along with their offers in their letter head duly signed. Information to be provided: BANK NAME,BANK ADDRESS,BANK PHONE,IFSC CODE (NEFT),BANK ACCOUNT NO.,PAN NO.,SERVICE TAX NO.,TIN NO.,E-MAIL ID.	
29	BILLS SUBMISSION	1) All your invoices against our order are required to be sent in a sealed envelope addressed to: BHEL - ISG VENDOR BILLS BOX , BHEL - Industrial Systems Group , Opp.IISc, PROF. C N R RAO CIRCLE , MALLESWARAM , BANGALORE - 560 012 The envelope shall be super-scribed with Project Name / P.O No. / W.O No., and	

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23/38

Equipment : CABLE TRAYS AND CABLY TRAY ACCESSORIES
 Project Name : RAW MATERIAL HANDLING SYSTEM (PACKAGE-1)

Annex -4

Commercial terms and Conditions

Sl.No	Clause	BHEL'S Requirement	Acceptance/Remarks
		the Bill / Invoice numbers & Contact person. 2) Bills / invoices which are brought personally by vendors to ISG are to be dropped in the "BHEL-ISG vendor bills Box" kept near Tender Box at the Reception Office.	

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IMPORTANT POINTS TO NOTE

- (1) **No Material will be despatched without written despatch clearance from BHEL-ISG (MM DEPT).**
- (2) **All above columns are to be filled up, otherwise the offer is subject to rejection.**
- (3) **No prices to be filled up in this format. All prices are to be filled up only in price bid including unit price if asked and upper limit of freight charges.**
- (4) **Delivery with respect to technical specification and commercial terms and conditions, if any must be clearly mentioned in the " DEVIATION FORMAT" enclosed herewith. If required, please use additional sheet. If there is no Deviation, Please write same in the " DEVIATION FORMAT".**
- (5) **The Commercial terms and conditions shall be given with Technical Bid. Non-acceptance of our Commercial terms may lead to rejection of your offer.**
- (6) **During technical scrutiny, our Project Engg. Department may ask further clarification. The technical reply may be sent directly to the concerned person but additional price bid, if any due to technical changes must be sent in a separate sealed cover to Materials Management Department Only.**

Supplier's Signature with Date:

Name :

Company Seal/Name :

ISSUED BY : MM	REV NO. OO	DATE : 26-12-2012	PAGE NO : 8 OF 8
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INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi – 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for Pre Tender tie-up FOR Supply of Cable Trays and its accessories for RMHS, NMDC, Nagarnar Project Against the tender 77/12/6276/PS dtd 26.12.2012

The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidders(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines for Suspension of Business Dealings with Suppliers/ Contractors" framed by the Principal.

Section 4 – Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

Section 5 – Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to demand from his sub-contractors a commitment consistent with this Integrity Pact. This commitment shall be taken only from those sub-contractors whose contract value is more than 20% of Bidder's/ Contractor's contract value with the Principal.

- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 – Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 –Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- 8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- 8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.10 The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

- 9.1 This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.
- 9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 – Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal
(Office Seal)

For & On behalf of the Bidder/ Contractor
(Office Seal)

Place-----

Date-----

Witness: _____
(Name & Address) _____

Witness: _____
(Name & Address) _____

ANNEXURE-VI

UN PRICE FORMAT (Vendor to specify quoted / not quoted against each column)

Sl.No.	Item Description	Qty	UOM	Unit Ex-works including Packing & Forwarding Charges	Total Ex-works including Packing & Forwarding Charges	Excise Duty including Cess	CST against issue of "C" form in exchange of "E1" form	Freight Charges inclusive of Service Tax	Entry Tax or any other tax as applicable	FOR Site Price including P&F, Taxes, Duties & Freight Charges
1	2	3		4	5	6	7	8	9	10
	LADDER TYPE CABLE TRAY									
1	600mm width G.I cable tray , per unit length shall be 2.5 mtrs	18000	No							
2	600mm width – Horizontal type 90 deg G.I bend.	900	No							
3	600mm width – Vertical (outside) G.I bend.	900	No							
4	600mm width - Vertical (inside) G.I bend.	900	No							
5	600mm width – Tees (horizontal G.I bends)	900	No							
6	600mm width – G.I Crosses	900	No							
7	600mm width – G.I Side coupler plate with 04 sets of fixing hardware	59400	No							
8	450mm width G.I cable tray , per unit length shall be 2.5 mtrs	8000	No							
9	450mm width – Horizontal type 90 deg G.I bend.	400	No							
10	450mm width – Vertical (outside) G.I bend.	400	No							
11	450mm width - Vertical (inside) G.I bend.	400	No							
12	450mm width – Tees (horizontal G.I bends)	400	No							
13	450mm width – G.I Crosses	400	No							
14	450mm width – G.I Side coupler plate with 04 sets of fixing hardware	26400	No							
15	300mm width G.I cable tray ,per unit length shall be 2.5 mtrs	7000	No							
16	300mm width – Horizontal type 90 deg G.I bend.	350	No							
17	300mm width – Vertical (outside) G.I bend.	350	No							
18	300mm width - Vertical (inside) G.I bend	350	No							
19	300mm width – Tees (horizontal G.I bends)	350	No							
20	300mm width – G.I Crosses	350	No							
21	300mm width – G.I Side coupler plate with 04 sets of fixing hardware	23100	No							
	PERFORATED TYPE CABLE TRAY									
1	600mm width G.I cable tray ,per unit length shall be 2.5 mtrs	6000	No							
2	600mm width - Horizontal type 90 deg G.I bend	300	No							
3	600mm width – Vertical (outside) G.I bend	300	No							
4	600mm width – Vertical (inside) G.I bend	300	No							
5	600mm width – Tees (horizontal G.I bends)	300	No							
6	600mm width – G.I Crosses	300	No							
7	600mm width – G.I Side coupler plates with 04 sets of fixing hardware	19800	No							
8	450mm width G.I cable tray , per unit length shall be 2.5 mtrs	3000	No							
9	450mm width - Horizontal type 90 deg G.I bend	150	No							

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10	450mm width - Vertical (outside) G.I bend	150	No						
11	450mm width - Vertical (inside) G.I bend	150	No						
12	450mm width - Tees (horizontal G.I bends)	150	No						
13	450mm width - G.I Crosses	150	No						
14	450mm width - G.I Side coupler plates with 04 sets of fixing hardware	9900	No						
15	300mm width G.I cable tray , per unit length shall be 2.5 mtrs	2500	No						
16	300mm width - Horizontal type 90 deg G.I bend	125	No						
17	300mm width - Vertical (outside) G.I	125	No						
18	300mm width - Vertical (inside) G.I bend	125	No						
19	300mm width - Tees (horizontal G.I bends)	125	No						
20	300mm width - G.I Crosses	125	No						
21	300mm width - G.I Side coupler plates with 04 sets of fixing hardware	8250	No						
22	150 mm width G.I cable tray , per unit length shall be 2.5 mtrs	2500	no						
23	150 mm width - Horizontal type 90 deg G.I bend	125	No						
24	150 mm width - Vertical (outside) G.I bend	125	No						
25	150 mm width - Vertical (inside) G.I bend	125	No						
26	150 mm width - Tees (horizontal G.I bends)	125	No						
27	150 mm width - G.I Crosses	125	No						
28	150 mm width - G.I Side coupler plates with 04 sets of fixing hardware	8250	No						
GRAND TOTAL									
FOR SITE PRICE in words Rupees.....Only.									

- A** Price Evaluation basis shall be Total Ex-works Price including Packing & Forwarding Charges + Total Freight Charges and Loading Charges due to deviations if any and excluding all taxes & duties.
- B** In case number of bidders are Four or more then BHEL reserves the right to split the order between L1 , L2 & L3 bidder on around 50:30:20 basis after getting L2 & L3 bidders acceptance of the counter offered L1 price. In case L3 bidder is not accepting the L1 price but L2 bidder accepts L1 price then order splitting may be 60:40 amongst L1 & L2 bidders.
- C** Otherwise i.e in case no. of bidders are not Four or more then BHEL reserves the right to split the order between L1 / L2 bidder on around 60:40 basis after getting L2 bidders acceptance of the counter offered L1 price.
- D** Acceptance of offer for price bid opening shall be subject to satisfying the Pre-Q criteria, Techno Commercial conditions and Customer Approval for the vendors.
- E** Prices for all the rows & columns to filled, in case any row or column is left blank is deemed as included in the Total Price declared in words. In the event of discrepancy between the value and declared in words, value declared in words will be considered.

Vendors seal & signature

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DEVIATION FORMAT

1.1. Technical Deviations :

FOLLOWING ARE THE DEVIATIONS FROM ENQUIRY SPECIFICATIONS :

SL. NO.	TECHNICAL SPECIFICATIONS			Deviation
	Page No.	Clause No.	Clause	

We confirm that all other clauses of Technical specifications are fully acceptable,

SIGNATURE OF TENDERER

1.2. Commercial Terms & Conditions :

FOLLOWING ARE THE DEVIATIONS FROM ENQUIRY TERMS AND CONDITIONS :

SL. NO.	COMMERCIAL TERMS & CONDITIONS			Deviation
	Page No.	Clause No.	Clause	

We confirm that all other clauses of commercial terms and conditions are fully acceptable.

SIGNATURE OF TENDERER

BHEL - ISG- Bangalore
LOADING FACTORS SHEET

Sl. No.	Commercial Terms	BHEL ISG Standard Terms	Deviation	Loading factor for Non-compliance of BHEL ISG standard term
1	Terms of Payment (where scope does not include E&C) Example: All standard items like Motors transformers pumps compressors	a) 90% basic + 100% taxes and duties within 60 days from the date of receipt of complete set of original dispatch documents including test reports and Performance Bank Guarantee (if applicable) to BHEL b) Balance 10% within 30 days of receipt of materials at site and proof of supply of complete requirements, against a supplementary invoice.	1. Immediate on dispatch 2. Within 30 days of dispatch 3. Through bank 4. If demanded 100% payment (within 60 days) on receipt at site and furnishing all documents. 5. If demanded 100% payment (within 30 days) on receipt at site and furnishing all documents. 6. If demanded 100% payment on proof of dispatch (immediate)	1. 2% on the 90% of the basic material value 2. 1% on the 90% of the basic material value 3. 2.5% on the 90% of the basic material value 4. No Loading 5. 1% of the total order value. 6. 2% of the total order value.
5.	Price basis	FIRM price basis to be adopted.	NO DEVIATION ALLOWED	--
6.	Performance Bank Guarantee	PBG for 10% of the basic material cost shall be furnished in the BHEL prescribed format only, along with 90% invoice directly to the Purchase Department	If not agreed	5% of the basic material value. For part BG part loading will be done.
7.	LD/Penalty (common for indigenous/imported/HSS)	In the event of delay in agreed contractual delivery, LD/penalty @ 0.5% per week on total order value but limited to a max. of 5% (five percent) of total order value (basic).	If not agreed	5% of the basic material value
8.	Guarantee	12 months from the date of commissioning or 18 months from the date of last supply whichever is earlier.	If not agreed for the stipulated guarantee period in the enquiry	0.5% of the basic material value per month for the difference in period
9.	Risk Purchase	For delay / failure in completing the contract.	No deviation permitted.	10 % of contract value.
10.	Delivery	To comply BHEL requirement.	No deviation permitted	Loading will not serve the project requirement.

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ANNEXURE-IX

PRICE FORMAT

Sl.No.	Item Description	Qty	UOM	Unit Ex-works including Packing & Forwarding Charges	Total Ex-works including Packing & Forwarding Charges	Excise Duty including Cess	CST against issue of "C" form in exchange of "E1" form	Freight Charges inclusive of Service Tax	Entry Tax or any other tax as applicable	FOR Site Price including P&F, Taxes, Duties & Freight Charges
1	2	3		4	5	6	7	8	9	10
	LADDER TYPE CABLE TRAY									
1	600mm width G.I cable tray , per unit length shall be 2.5 mtrs	18000	No							
2	600mm width – Horizontal type 90 deg G.I bend.	900	No							
3	600mm width – Vertical (outside) G.I bend.	900	No							
4	600mm width - Vertical (inside) G.I bend.	900	No							
5	600mm width – Tees (horizontal G.I bends)	900	No							
6	600mm width – G.I Crosses	900	No							
7	600mm width – G.I Side coupler plate with 04 sets of fixing hardware	59400	No							
8	450mm width G.I cable tray , per unit length shall be 2.5 mtrs	8000	No							
9	450mm width – Horizontal type 90 deg G.I bend.	400	No							
10	450mm width – Vertical (outside) G.I bend.	400	No							
11	450mm width - Vertical (inside) G.I bend.	400	No							
12	450mm width – Tees (horizontal G.I bends)	400	No							
13	450mm width – G.I Crosses	400	No							
14	450mm width – G.I Side coupler plate with 04 sets of fixing hardware	26400	No							
15	300mm width G.I cable tray ,per unit length shall be 2.5 mtrs	7000	No							
16	300mm width – Horizontal type 90 deg G.I bend.	350	No							
17	300mm width – Vertical (outside) G.I bend.	350	No							
18	300mm width - Vertical (inside) G.I bend	350	No							
19	300mm width – Tees (horizontal G.I bends)	350	No							
20	300mm width – G.I Crosses	350	No							
21	300mm width – G.I Side coupler plate with 04 sets of fixing hardware	23100	No							
	PERFORATED TYPE CABLE TRAY									
1	600mm width G.I cable tray ,per unit length shall be 2.5 mtrs	6000	No							
2	600mm width - Horizontal type 90 deg G.I bend	300	No							
3	600mm width – Vertical (outside) G.I bend	300	No							
4	600mm width – Vertical (inside) G.I bend	300	No							
5	600mm width – Tees (horizontal G.I bends)	300	No							
6	600mm width – G.I Crosses	300	No							
7	600mm width – G.I Side coupler plates with 04 sets of fixing hardware	19800	No							
8	450mm width G.I cable tray , per unit length shall be 2.5 mtrs	3000	No							
9	450mm width - Horizontal type 90 deg G.I bend	150	No							

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10	450mm width - Vertical (outside) G.I bend	150	No						
11	450mm width - Vertical (inside) G.I bend	150	No						
12	450mm width - Tees (horizontal G.I bends)	150	No						
13	450mm width - G.I Crosses	150	No						
14	450mm width - G.I Side coupler plates with 04 sets of fixing hardware	9900	No						
15	300mm width G.I cable tray , per unit length shall be 2.5 mtrs	2500	No						
16	300mm width - Horizontal type 90 deg G.I bend	125	No						
17	300mm width - Vertical (outside) G.I	125	No						
18	300mm width - Vertical (inside) G.I bend	125	No						
19	300mm width - Tees (horizontal G.I bends)	125	No						
20	300mm width - G.I Crosses	125	No						
21	300mm width - G.I Side coupler plates with 04 sets of fixing hardware	8250	No						
22	150 mm width G.I cable tray , per unit length shall be 2.5 mtrs	2500	no						
23	150 mm width - Horizontal type 90 deg G.I bend	125	No						
24	150 mm width - Vertical (outside) G.I bend	125	No						
25	150 mm width - Vertical (inside) G.I bend	125	No						
26	150 mm width - Tees (horizontal G.I bends)	125	No						
27	150 mm width - G.I Crosses	125	No						
28	150 mm width - G.I Side coupler plates with 04 sets of fixing hardware	8250	No						
GRAND TOTAL									
FOR SITE PRICE in words Rupees.....Only.									

- A Price Evaluation basis shall be Total Ex-works Price including Packing & Forwarding Charges + Total Freight Charges and Loading Charges due to deviations if any and excluding all taxes & duties.**
- B In case number of bidders are Four or more then BHEL reserves the right to split the order between L1 , L2 & L3 bidder on around 50:30:20 basis after getting L2 & L3 bidders acceptance of the counter offered L1 price. In case L3 bidder is not accepting the L1 price but L2 bidder accepts L1 price then order splitting may be 60:40 amongst L1 & L2 bidders.**
- C Otherwise i.e in case no. of bidders are not Four or more then BHEL reserves the right to split the order between L1 / L2 bidder on around 60:40 basis after getting L2 bidders acceptance of the counter offered L1 price.**
- D Acceptance of offer for price bid opening shall be subject to satisfying the Pre-Q criteria, Techno Commercial conditions and Customer Approval for the vendors.**
- E Prices for all the rows & columns to filled, in case any row or column is left blank is deemed as included in the Total Price declared in words. In the event of discrepancy between the value and declared in words, value declared in words will be considered.**

Vendors seal & signature

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