

MAHARASHTRA STATE POWER GENERATION CO. LTD.

1X660MW BHUSAWAL UNIT-6, T.P.S

VOLUME-II

TECHNICAL SPECIFICATION

FOR

***GALVANISED CABLE TRAY SUPPORT SYSTEM
(WELDED TYPE)***

SPECIFICATION NO: *PE-TS-415-507-E012*

REVISION: 0



BHARAT HEAVY ELECTRICALS LIMITED

POWER SECTOR

PROJECT ENGINEERING MANAGEMENT

NOIDA, UP (INDIA) – 201301

52097/2020/PS-PEM-EL

	SPECIFICATION NO. PE-TS-415-507-E012	
	VOLUME II	
	SECTION	
	REVISION 0	DATE: 31.07.2020
	SHEET 1 OF 1	

TECHNICAL SPECIFICATION FOR GALVANISED CABLE TRAY SUPPORT SYSTEM (WELDED TYPE)

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Total nos. of sheets including cover & separator sheets = 14 sheets



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COMPLIANCE CERTIFICATE

The bidder shall confirm compliance to the following by signing/ stamping this compliance certificate and furnishing same with the offer.

1. The scope of supply, technical details, construction features, design parameters etc. shall be as per technical specification & there are no exclusion/ deviation with regard to same.
2. There are no deviation with respect to specification other than those furnished in the 'schedule of deviations'.
3. Only those technical submittals which are specifically asked for in NIT to be submitted at tender stage shall be considered as part of offer. Any other submission, even if made, shall not be considered as part of offer.
4. Any comments/ clarifications on technical/ inspection requirements furnished as part of bidder's covering letter shall not be considered by BHEL, and bidder's offer shall be construed to be in conformance with the specification.
5. Any changes made by the bidder in the price schedule with respect to the description/ quantities from those given in 'BOQ-cum-Price schedule' of the specification shall not be considered (i.e., technical description & quantities as per specification shall prevail).

BIDDER'S STAMP & SIGNATURE

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SPECIFICATION NO. PE-TS-415-507-E012

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SECTION – I

SPECIFIC TECHNICAL REQUIREMENTS

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SPECIFIC TECHNICAL REQUIREMENTS

1.0 SCOPE OF ENQUIRY

- 1.1 Manufacture, Inspection and Testing at Manufacturer's works, proper packing and delivery to site of Galvanised Cable Tray Support System (Welded Type) conforming to this specification.
- 1.2 It is not the intent to specify herein all the details of design & manufacture of material. However, the material shall, conform in all respects to high standard of design, engineering and workmanship and shall be capable of performing in continuous commercial operation at site conditions.
- 1.3 Technical requirements of Galvanised Cable Tray Support System (Welded Type) are indicated in Data Sheet-A & Section-II.
- 1.4 The stipulation of Data Sheet-A shall prevail in case of any conflict between the stipulations of Data Sheet-A & Section-II.

2.0 BILL OF QUANTITIES

Quantity requirements shall be as per **Bill of Quantities (BOQ)** of NIT.

3.0 DRAWINGS & DOCUMENTS TO BE SUBMITTED

- 3.1 Following documents shall be submitted after placement of order for BHEL & customer's approval: -

Sl. No.	Drawings / Document Description	Document Number
1	Quality Plan for cable tray support material (Welded Type)	PE-V0-415-507-E907

- 3.2 Drawings/ documents shall be submitted through Document Management System (DMS).

Note: -

It may please be noted that successful bidder is not to make any fresh submittals at contract stage w.r.t. above mentioned drawings/documents. Standard Quality Plan as enclosed in the technical specification are to be appended with cover sheet bearing drawing/document number & description as stated above. The signed & stamped copy for the same shall be submitted by successful bidder to BHEL by as per document submission schedule enclosed with specification after award of contract without making any changes in the contents of the drawing/document.

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DATA SHEET-A

1.0 APPLICABLE STANDARDS & CODES

- | | | |
|----|----------|---|
| a) | IS: 2062 | For Structural steel. |
| b) | IS: 2629 | For Hot dip galvanising of steel & surface pre-treatment. |
| c) | IS: 2633 | For Testing uniformity of zinc coating. |
| d) | IS: 6745 | For Determination of mass of zinc coating. |
| e) | IS: 1852 | For Rolling & cutting tolerances for hot rolled steel products. |
| f) | IS: 4759 | For Hot dip zinc coating on structural steel & other allied products. |

2.0 GALVANISED CABLE TRAY SUPORT SYSTEM (WELDED):

- | | | |
|----|-----------|--|
| a) | Material: | Hot Rolled Mild Steel as per IS 2062 |
| b) | Make: | SAIL/ TISCO/ RINL / BHUSAN/ JINDAL ISPAT/
ESSAR/ LLOYD/ IISCO/ Authorised SAIL re-rollers |
| c) | Sizes: | |
| | Channels: | ISMC-100, ISMC-150 |
| | Angles: | ISA 50x50x6 |
| d) | Length: | Standard length of 5.5m to 6.5m. |
| e) | Type: | Hot-dip galvanised |

3.0 SURFACE TREATMENT:

Galvanizing:

- | | | |
|----|---------------------------------|--|
| a) | Pre-treatment: | As per IS 2629 prior to galvanisation |
| b) | Type: | Hot dip galvanization as per IS 2629 |
| c) | Minimum thickness: | 75 microns (minimum)
86 microns (average) |
| d) | Min. weight of:
Zinc deposit | 610 gms. per square meter |
| e) | Tests for galvanizing: | i) Weight of zinc coating as per IS : 6745
ii) Thickness of zinc coating as per IS : 4759
iii) Uniformity of zinc coating as per IS : 2633
iv) Adhesion as per IS: 2629 |

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SECTION-II

STANDARD TECHNICAL REQUIREMENTS



TECHNICAL SPECIFICATION FOR GALVANISED CABLE TRAY SUPPORT SYSTEM (WELDED TYPE)

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1.0 CODES AND STANDARDS

- 1.1 The material shall comply with all currently applicable safety codes and statutory regulations of India as well as of the locality where the material is to be installed.
- 1.2 The material, construction, manufacture, inspection and testing of Cable Tray Support System (Welded Type) shall conform to the latest revision of relevant standards as per Data Sheet-A.
- 1.3 In case of conflict between the applicable reference standard and this specification, this specification shall govern.

2.0 TECHNICAL REQUIREMENTS

- 2.1 Hot dip galvanised MS channels and angles shall be supplied as per technical particulars of cable tray support system specified in Data Sheet – A.
- 2.2 All finished galvanised MS structural members for cable tray supports shall be free from sharp edges, corners, burs & unevenness.

3.0 QUALITY ASSURANCE, TESTING & INSPECTION

- 3.1 Bidder shall confirm compliance with the BHEL's Standard Quality Plan (PE-QP-999-507-E006 Rev 3) as attached with the specification without any deviations. At contract stage, the successful bidder shall submit the Quality Plan for BHEL/ ultimate customer's approval. In case bidder has reference Quality Plan agreed with ultimate customer, same can be submitted for specific project after award of contract for BHEL/ ultimate customer's approval. There shall be no commercial implication to BHEL on account of minor changes in Quality Plan during contract stage.
- 3.2 All materials shall be procured, manufactured, inspected and tested by vendor/ sub-vendor as per approved Quality Plan.
- 3.3 The supplier shall perform all tests necessary to ensure that the material and workmanship conform to the relevant standards and comply with the requirements of the specification. Charges for all these tests for all the equipments & components shall be deemed to be included in the bid price.

4.0 PACKING

The material shall be packed to ensure protection against damage during transit, storage for prolonged periods and handling.

5.0 DELIVERY

The delivery shall be as per NIT (Notice Inviting Tender).



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6.0 DOCUMENTATION

Documents to be submitted by the bidder along with the bid: -

- a) A copy of sheet “Compliance Certificate” with bidder’s signature & company stamp.
- b) Unpriced copy of “Bill of Quantities (BOQ)” of NIT with bidder’s signature & company stamp.
- c) A copy of sheet “Datasheet-A” with bidder’s signature & company stamp.

52097/2020/PS-BHEL 	MANUFACTURER/ BIDDER/		STANDARD QUALITY PLAN				SPEC. NO :				DATE:	
	SUPPLIER NAME & ADDRESS		CUSTOMER :				QP NO.: PE-QP-999-507-E006, REV. 03				DATE:08.07.2020	
			PROJECT:				PO NO.:					
			ITEM: CABLE TRAY SUPPORT SYSTEM- WELDED(GALV)				SYSTEM:CABLING		SECTION: II		SHEET 1 OF 3	

Sl. No.	COMPONENTS & OPERATIONS	CHARACTERISTICS	CLAS S	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS
1	2	3	4	5	6	7	8	9	* D	** M C N
					M C/N					

1.0 RAW MATERIAL

1.1	MILD STEEL SECTIONS (CHANNEL & ANGLES)	1. CHEM. & PHY. PROPERTIES	MA	VERIFICATION OF TC'S	100%	-	IS -2062	IS -2062	MILL TC	√	P/V	V	V	Refer Note-1
		2.DIMENSIONS	MA	MEASUREMENT	100%	-	IS - 808	IS - 808	QC RECORD		P	-	-	
		3.SURFACE FINISH	MA	VISUAL	100%	-	IS-1079	IS-1079	QC RECORD		P	-	-	
1.2	ZINC	CHEM.COMP.	MA	CHEM TEST	EACH HEAT	-	IS-209	IS-209	TC	√	P/V	V	V	

2.0 IN-PROCESS

2.1	CUTTING	1.DIMENSIONS	MA	MEASUREMENT	100%	-	Refer remarks	Refer remarks	QC RECORD	√	P	V	V	Refer note-2
		2. WELDING QUALITY (IF APPLICABLE)	MA	VISUAL	100%	-	ASME SEC. IX	ASME SEC. IX	QC RECORD	√	P	V	V	Refer Note-3
		3.SURFACE FINISH	MA	VISUAL	100%	-	-	FREE FROM DEFECTS & SLAG	QC RECORD	√	P	V	V	
2.2	SURFACE PREPARATION	1.CLEANING, PICKLING & RINSING & FLUXING	MA	VISUAL	100%	-	IS:2629	IS:2629	QC RECORD		P	-	-	
		2. SURFACE FINISH	MA	VISUAL	100%	-	IS:2629	IS:2629	QC RECORD		P	-	-	
2.3	GALVANIZING	1.TEMPERATUR E OF ZINC BATH	MA	MEASUREMENT	CONTI NUOU S	-	IS-2629	IS-2629	QC RECORD		P/V	-	-	Refer Note-4
		2.DROSS	MA	VISUAL	PERIO DIC	-	IS-2629	IS-2629	QC RECORD		P/V	-	-	
		3.RATE OF IMMERSION	MA	VISUAL	100%	-	IS 2629	IS 2629	QC RECORD		P/V	-	-	
		4. SURFACE FINISH	MA	VISUAL	100%	-	IS 2629	FREE FROM BURRS, ROUGHNESS,	QC RECORD		P/V	-	-	

BHEL						BIDDER/ SUPPLIER		FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING			QUALITY			Sign & Date		Doc No:			
	Sign & Date	Name		Sign & Date	Name	Seal			Sign & Date	Name	Seal
Prepared by:		MANOJ KUMAR MEENA	Checked by:		KUNAL GANDHI			Reviewed by:			
Reviewed by:		MANISH SHUKLA	Reviewed by:		R. K. JAISWAL			Approved by:			

52097/2020/PS-BHEL

	MANUFACTURER/ SUPPLIER NAME & ADDRESS	BIDDER/	STANDARD QUALITY PLAN				SPEC. NO :		DATE:	
			CUSTOMER :				QP NO.: PE-QP-999-507-E006, REV. 03		DATE:08.07.2020	
			PROJECT:				PO NO.:			
			ITEM: CABLE TRAY SUPPORT SYSTEM- WELDED(GALV)			SYSTEM:CABLING	SECTION: II		SHEET 2 OF 3	

Sl. No.	COMPONENTS & OPERATIONS	CHARACTERISTICS	CLAS S	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS
1	2	3	4	5	6	7	8	9	* D	** M C N
					M C/N					

							SLAG FLUX, STAIN ETC.						
--	--	--	--	--	--	--	--------------------------	--	--	--	--	--	--

3.0 FINISHED ITEMS

3.1	CABLE TRAY SUPPORT SYSTEM- WELDED(GALV)	1. DIMENSIONS	MA	MEASUREMENT	IS-2500 (PART 1) LEVEL S-4	IS-2500 (PART 1) LEVE L S-4	IS - 808	IS - 808	INSP.REPO RT	√	P	W	W	Refer note-2
		2. SURFACE FINISH	MA	VISUAL	IS-2500 (PART 1) LEVEL S-4	IS-2500 (PART 1) LEVE L S-4	-	FREE FROM BURRS, SLAG, ROUGHNESS, FLUX, STAIN ETC.	INSP.REPO RT	√	P	W	W	
		3.MASS OF ZINC COATING	MA	CHEM. TEST	IS-4759	IS-4759	IS-6745	610 gms/ Sq m	INSP.REPO RT	√	P	W	W	
		4.UNIFORMITY OF ZINC COATING	MA	CHEM. TEST	IS-4759	IS-4759	IS-2633	IS-2633	INSP.REPO RT	√	P	W	W	
		5.THICKNESS OF ZINC COATING	MA	PHYSICAL TEST	IS-4759	IS-4759	Refer remarks	Refer remarks	INSP.REPO RT	√	P	W	W	Refer note-5
		6.ADHESION	MA	MECH.TEST	IS-4759	IS-4759	IS-2629	IS-2629	INSP.REPO RT	√	P	W	W	
		7.PACKING	MA	VISUAL	100%	100%	BHEL APPD. DOCUMENT	BHEL APPD. DOCUMENT	INSP.REPO RT	√	P	W	-	Refer Note-6

NOTES:

- Steel shall be procured from SAIL/ TISCO/ RINL/ BHUSAN/ JINDAL ISPAT/ ESSAR/ LLOYD/ IISCO/ authorised steel re rollers.
- Length of one member of Cable Tray Support System-Welded(Galv) shall be 5.5 mtrs to 6.5 mtrs
- Welding is to be done by qualified welders in accordance with ASME Sec. IX Article III. WPS, PQR & WPQ to be reviewed during inspection.
- Galvanization is to be done at BHEL approved Galvanization Plants listed in Annexure-1 to Quality Plan.
- Thickness of zinc coating shall be 75 microns (minimum) & 86 microns (average).

BHEL						BIDDER/ SUPPLIER		FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING			QUALITY			Sign & Date		Doc No:			
	Sign & Date	Name		Sign & Date	Name	Seal			Sign & Date	Name	Seal
Prepared by:		MANOJ KUMAR MEENA	Checked by:		KUNAL GANDHI			Reviewed by:			
Reviewed by:		MANISH SHUKLA	Reviewed by:		R. K. JAISWAL			Approved by:			

		MANUFACTURER/ BIDDER/ SUPPLIER NAME & ADDRESS		STANDARD QUALITY PLAN				SPEC. NO :		DATE:	
				CUSTOMER :				QP NO.: PE-QP-999-507-E006, REV. 03		DATE:08.07.2020	
				PROJECT:				PO NO.:			
				ITEM: CABLE TRAY SUPPORT SYSTEM- WELDED(GALV)		SYSTEM:CABLING		SECTION: II		SHEET 3 OF 3	
Sl. No.	COMPONENTS & OPERATIONS	CHARACTERSTICS	CLAS S	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY	REMARKS
1	2	3	4	5	6	7	8	9	* D	**	
					M					C/N	

6. Photographs of complete Cable Tray Support System-Welded (Galv) after packing to be sent to BHEL Purchase Group for review before issuing MDCC.
7. Project specific Quality Plan to be developed based on customer requirement.
8. BHEL reserves the right for conducting repeat test, if required.
9. For export job, BHEL specification for seaworthy packing for export job to be followed.
10. Packing shall be suitable for storage at site in tropical climatic conditions.
11. Latest revision/ year of issue of all the standards (IS/ASME/IEC etc.) indicated in QP shall be referred.

LEGENDS:

*Records, Identified WITH "Tick"(✓) shall be essentially included by supplier in QA Documentation, **D:** Documentation

** **M:** Supplier/ Manufacturer/ Sub-Supplier, **C:** Main Supplier/ BHEL/ Third Party Inspection Agency, **N:** Customer,

P: Perform, **W:** Witness, **V:** Verification, as appropriate

MA: Major, **MI:** Minor, **CR:** Critical

BHEL						BIDDER/ SUPPLIER		FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING			QUALITY			Sign & Date		Doc No:			
	Sign & Date	Name		Sign & Date	Name	Seal			Sign & Date	Name	Seal
Prepared by:		MANOJ KUMAR MEENA	Checked by:		KUNAL GANDHI			Reviewed by:			
Reviewed by:		MANISH SHUKLA	Reviewed by:		R. K. JAISWAL			Approved by:			

ANNEXURE 1 to Quality Plan**(LIST OF BHEL PEM APPROVED GALVANIZERS)**

SL NO.	ITEM DESCRIPTION	VENDOR NAME	ADDRESS
1	GALVANISING	Jenco Industrial Corporation	Chincholi Bunder Khkar Road Near Link Road Devruwadi Malad (W) Mumbai 400064
2	GALVANISING	National Galvanizing Company	66, Barrackpore Kamarhatt Trunck Road Calcutta-700058
3	GALVANISING	Sigma Galvanising Pvt. Ltd.	Plot No.C-169, TTC, MIDC Ind Area Navin Mumbai-400705
4	GALVANISING	B.P. Projects PVT LTD	167A, Vivekananda Road Kolkata-700006
5	GALVANISING	Standard Galvanisers	Makardah Road, Kabar Para, Bankra, Howarah -711403
6	GALVANISING	Steel Products	National Highway No. 6, Chamrail, Kona, Howrah-711114
7	GALVANISING	Unitech Fabricators & Engineers Pvt. Ltd.	Village- Ajab Nagar, P.O. -Molla Simlla, P.S. - Singur, Dist - Hoogly, Pin-712223
8	GALVANISING	Shivam Engineers & Fabricators	A0-282-284, Industrial Area, South Side of G.T. Road, Ghaziabad, U.P.
9	GALVANISING	B.G. Shirke Construction Technology Pvt. Ltd	72-76, Mundhawa, Pune - 401 036
10	GALVANISING	Galbro Ispat Galvanizers Pvt. Ltd.	GUT 11 AND 12, OPP. Kudus Steel,Rolling Mill, Wada, Thane , Mumbai
11	GALVANISING	Eros Metals	G-97, MIDC, Bhutibori , Nagpur
12	GALVANISING	Industrial Perforation (India) Pvt. Ltd.	Ganganagr, Katakhal, Kolkata-700132
13	GALVANISING	Indmark Formtech Pvt. Ltd.	Phase - 3, E - 11 / 1, M. I. D. C., Chakan, Pune - 410 501, Maharashtra, India.
14	GALVANISING	Namdhari Industrial Traders Pvt. Ltd.	Village Latton Dana, Chandigarh Road, Ludhiana
15	GALVANISING	Neha Galvaniser	Jalan Industrial Estate, Gate No-1, 1st Right Choise Lane, Near N.G-6, Jangalpur, PO Domjur Howrah - 700071, West Bengal, India
16	GALVANISING	Patny Systems (P) Ltd.	Unit-IV, Sy No. -228/9, Plot No. 6, IP Kuchavaram, Toopran(M) Dist.- Medak, Telegana - 502336
17	GALVANISING	Parmar Metal Company	Survey No.207,Veraval (Shapar) Dist. Rajkot, India.
18	GALVANISING	Rukmani Electrical & Components Pvt Ltd	Urla Industrial Area, Urla Sarora Road, Raipur- 493 221 (Chhattisgarh)
19	GALVANISING	Rukmani Electrical & Fabricators Pvt, Ltd.	Shankharidaha Baniyarah, Jalan Industrial Complex, Gate no.3, Lane no. 4, Domjur, Howrah , W.B .- 71141
20	GALVANISING	DMP Projects Pvt.Ltd.	Dulagarh Industrial Park , PS-Sankrail , Howrah -711302
21	GALVANISING	Vinfab Engineers India Private Limited	Gut no. 224/1 & 2 Bhiwandi Wada State Highway, Village khupri, Dist. Thane, Maharashtra -421303
22	GALVANISING	Saral Projects & Processors	B-1, Industrial Area, Site-II, Amawan Road Rae Bareli
23	GALVANISING	Brahampuri Steels Limited	172 (F) Industrial Area, Jhotwara, Jaipur-302013
24	GALVANISING	Indiana Gratings PVT. LTD	F-5, MIDC Jejuri, Pune-412 303
25	GALVANISING	M/s AWAIDS TECHNOVATORS PVT. LTD.	131, MATSYA INDUSTRIAL AREA, ALWAR RAJASTHAN

NOTES:

1. ANY CHANGE IN THE ABOVE LIST SHALL BE INFORMED AT THE TIME OF SPECIFIC PROJECT REQUIREMENT AND NO COMMERCIAL IMPLICATION SHALL BE ALLOWED ON THIS ACCOUNT.
2. IT SHALL BE THE RESPONSIBILITY OF THE VENDOR TO GET THE MATERIAL GALVANOZED FROM THE ABOVE LIST WITHOUT ANY COMMERCIAL IMPLICATION TO BHEL.

DOCUMENTS SUBMISSION SCHEDULE FOR
CABLE TRAY SUPPORT SYSTEM (WELDED GALVANISED)

SL. No.	DOCUMENT TITLE	SUBMISSION SCHEDULE
1	Quality Plan of Cable Tray Support (Welded Type)	Rev0 within 14 days from the date of PO.
2	Resubmission of BHEL/ customer commented document	Within 10 days of receipt of comments.

1 X 660 MW BHUSAVAL, UNIT-6 T.P.S**BOQ CUM PRICE SCHEDULE FOR CABLE TRAY SUPPORT SYSTEM- GALVANISED (WELDED)**

SL. NO.	ITEM CODE	ITEM DESCRIPTION	HSN CODE	UNIT	ORDERED QTY	LOT-1	UNIT EX- WORKS PRICE (Rs.)	TOTAL EX- WORKS PRICE (Rs.)
1.0		CABLE TRAY SUPPORT (HOT DIP GALVANISED STRUCTURAL STEEL)						
(I)	507-33003-A	ISA 50X50X6 (GALVANISED)	7308	MT	160	112		
(II)	507-33005-A	ISMC- 100 (GALVANISED)	7308	MT	85	60		
(III)	507-33006-A	ISMC- 150 (GALVANISED)	7308	MT	300	210		

NOTES:

- 1 Quantities indicated above shall be known as Order Quantities. The variation in quantities shall be as per NIT.
- 2 Standard length of ISA/ISMC shall be 5.5 mtr to 6.5 mtrs
- 3 Delivery schedule of LOT-1 and subsequent lots shall be as per NIT.
- 4 The unit price quoted by bidder shall be binding for bidder for quantity variation which is at discretion of purchaser.
- 5 Prices shall remain firm during contract execution.