



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

Works Contract Management Department (कार्य संविदा प्रबंधन विभाग)
HEAVY EQUIPMENT REPAIR PLANT, TARNA, SHIVPUR, VARANASI-221003

हेवी इक्विपमेंट रिपेयर प्लांट, तरना, शिवपुर, वाराणसी - 221003

Corrigendum due to change in TCC and Description of work in BOQ

Reference	
Tender ID	2023_BHEL_24286_1
Tender Reference No	HERP/WCM/STR/BLDG/SHOP/23-24
Scope of work	Fabrication/Manufacture, Supply, Transportation, Unloading and Erection of Pre Engineered Building Structure of Shop (Size 110mx50m) and Store (500 Sqm) at BHEL HERP Varanasi

A. Changes in TCC (Technical Condition of Contract) at Page No. 14 & 40 of NIT:

TCC Chapter-II (Page No. 14 of NIT)

Clause 2.3- Material Specification: Removed

Sl. No.	Previous Status		Present Status
	Materials	Specifications	
1	All structural Steel Members	Various sub-qualities of Mild Steel grade E250/ BHEL Drawings conforming to IS: 2062	Removed
2	Galvalume Sheet and accessories	0.50 mm thick conforming to IS:277	
3	Sandwich Roof Sheets	PPGI sheet conforming to IS: 14246 and PUF insulation conforming to IS: 12436.	
4	Polycarbonate Sheets	In line with relevant ASTM standards	
5	Turbo ventilators	Made up of steel with FRP/ Polycarbonate base. In line with IS 3103.	
6	Truss Seating & Crane Girder connecting Bolts	HSFG Bolts of Property class 8.8 or 8.8s or 8s	



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TCC Chapter-XI (Page No. 40 of NIT)

Clause 11.0- Technical Specification for supply of Items

<u>S. No.</u>	<u>Description of Item</u>	<u>Previous Makes/ Brands</u>	<u>Present</u> Technical Specifications of supply items and suggested Makes/ Brands
1.0	Structural Steel	As per Annexure-D	Various sub-qualities of Mild Steel grade E250/E350 as per BHEL Drawings conforming to IS: 2062 in line with BOQ. However, suggested make/brand as per Annexure-D or Substantially equivalent
2.0	Sandwich PUF sheet	Sintex, Epack, Engko, Metecno, Elastopir, Kingspan Jindal	PPGI sheet conforming to IS: 14246 and PUF insulation conforming to IS: 12436/ASTM D 1692 (Self Extinguishing) in line with BOQ. However, suggested make/brand for supply of Sandwich PUF sheet are Sintex, Epack, Engko, Metecno, Elastopir, Kingspan Jindal or Substantially equivalent
3.0	Galvalume Sheet	JINDAL, JSW, TATA, EVEREST, ESSAR, CHARMINAR, KAMDHENU, Tracdek, Durarroof, Kirby	0.50 mm thick conforming to IS:277 in line with BOQ. However, suggested make/brand for supply of Galvalume Sheet are JINDAL, JSW, TATA, EVEREST, ESSAR, CHARMINAR, KAMDHENU, Tracdek, Durarroof, Kirby or Substantially equivalent
4.0	Polycarbonate Sheet	Sabic, Danpalon, Palram, SKY LITE, DURA LITE, PC LITE, SUN LITE, TUF LITE, EVEREST	Supply of Polycarbonate Sheet as per IS or applicable standards in line with BOQ. However, suggested make/brand for supply of Polycarbonate Sheet are Sabic, Danpalon, Palram, SKY LITE, DURA LITE, PC LITE, SUN LITE, TUF LITE, EVEREST or Substantially equivalent



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5.0	Turbo ventilators	AIR CREATIONS INDIA, JSW, GISCO, EVEREST, KANSAL COLOUR, EPACK, JSR ROOFING & SHRIYA FRP	Made up of steel with FRP/ Polycarbonate base. In line with BOQ and confirming to IS 3103. However, suggested make/brand for supply of Turbo ventilators are AIR CREATIONS INDIA, JSW, GISCO, EVEREST, KANSAL COLOUR, EPACK, JSR ROOFING & SHRIYA FRP or Substantially equivalent
6.0	Painting items	Asian Paints/ Berger/ Kansai-Nerolac/ Shalimar/ Dulux/ Indigo/ Nippon/ Dupont/ Jonson & Nicholson/ Akzonobel	Supply of painting items as per IS or applicable standards in line with BOQ. However, suggested make/brand for supply painting items are Asian Paints/ Berger/ Kansai-Nerolac/ Shalimar/ Dulux/ Indigo/ Nippon/ Dupont/ Jonson & Nicholson/ Akzonobel or Substantially equivalent

Note:

1. Substantially equivalent brands can only be used after approval of BHEL Engineer In-charge and same to be used after inspection as per approved FQP/MQP.
2. All materials before use to be inspected as per approved FQP/MQP.



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B. Changes in Description of work in BOQ at Page No. 6,7,8, 28, 29 of NIT:

S. No.	DSR'21 Code	Previous Description of work	Present Description of work
3	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated 0.50 mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.
4		Providing and fixing precoated 0.50 mm (+ 0.05 %) total coated thickness , Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50mm ((base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm)) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete.



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7	NSI-2	Providing and fixing PUF Insulated sandwich panels constructed of 50mm (It should not include Height of Crest on top sheet) thick PUF insulation & density of 40 ± 2 kg/m³ laminated with Pre-Painted GI outside and inside of Roof Panels made out from continuous line method. Panels shall have pre coated 0.5 mm PPGI sheet on both side of Polyurethane foam with external face being corrugated in shape for GI and PU foam both material. The PPGI sheets shall conform to IS: 14246 and PUF insulation shall conform to IS: 12436. PU Foam must be self-extinguishing, fire retardant type having minimum density of 40 ± 2 kg/m³. Galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-incharge) shall be 0.50 mm (+0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester coat of 15-18 microns on Top side of the sheet. The roof panels is to be laid over a frame work of trusses, columns and purlins fixed using 90mm self-drilling bolt with rubber washer including all types of flashings as per directions of Engineer-Incharge.	Providing and fixing PUF Insulated sandwich panels constructed of 50mm (It should not include Height of Crest on top sheet) thick PUF insulation & density of 40 ± 2 kg/m³ laminated with Pre-Painted GI outside and inside of Roof Panels made out from continuous line method. Panels shall have pre coated 0.5 mm PPGI sheet on both side of Polyurethane foam with external face being corrugated in shape for GI and PU foam both material. The PPGI sheets shall conform to IS: 14246 and PUF insulation shall conform to IS: 12436. PU Foam must be self-extinguishing, fire retardant type having minimum density of 40 ± 2 kg/m³.
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Note: It is also being informed to bidders that description of items shall be referred from BOQ & Price Schedule (after incorporation of this corrigendum) only in case of any discrepancy anywhere else in the NIT.