TENDER DOCUMENT

TENDER NO.: DLI/C&E/WI-675/300

FOR

Tender for Supply of “Colour Coated GI Sheets, Ridge Flashing and Corner Flashing” for the project of “Augmentation of Fuel & Flux Crushing Facilities (Pkg-064) for Bhilai Steel Plant (SAIL), Bhilai, Chhattisgarh.”

VOLUME – III

TENDER SPECIFICATIONS (PROFILE AND DATA SHEET OF ROOF & WALL CLADDING SHEETS AND FLASHINGS)
DATA SHEET FOR FLASHINGS (RIDGES AND CORNER) FOR ROOF AND WALL CLADDING SHEETS

Name of the project: Augmentation of Fuel & Flux Crushing Facilities, BSP, Bhilai.
Package No.: 064
Contract No.: DGK/PCC/TX/2011/337 dated 15.02.2011

A) Flashing of conveyor galleries, junction houses:
Made from Permanently colour coated troweled Galvalume metal sheets (Zinc aluminium alloy coated not less than 150 gmasq.m.) having high tensile steel sheets (550 MPA) of 0.5mm thickness BMT as per AS: 1397.

B) Vendor (Source of supply):
Bhushan Power & Steel Ltd.
Vill. - Thelkoli, Post - Lapanga,
Distt. - Sambalpur (Odisha), India.

C) Relevant IS code and specification requirement:
1) Specification provision:
   a) pure metal thickness – Minimum 0.5mm (Metal thickness excluding thickness for Zinc Aluminium alloy coating & colour coating)
   b) Yield strength – Minimum 550 MPA as per IS: 1397.
   c) Coating – Zinc Aluminium alloy @ 150gm/m² (AZ 150 as per IS:1397)
   d) Pasting in external face – Min. 20 Microns (Nominal) Dry film thickness (DFT) of Poly-Vinyl Di Flouride (PVDF) over 5 microns (Nominal) primer coat.
   e) Painting on internal face – 12 microns (Nominal) dry film thickness (DFT) of Toly Vinyl Di Flouride (PVDF) over 5mm microns (Nominal) primer coat shall be as per category 3 of AS: 2728.
2) Codal Provisions:
   a) Tolerance on thickness of bare metal shall be – tolerance 4.06 mm as per IS: 16163
3) Test certificate required as per approved manufacturing quality plan of M/s MECON
4) Colour of sheets – Sky Blue (RAL-5012) on top side colour & White (RAL -9002) on bottom side colour.

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DATA SHEET FOR RIDGE AND CORNER FLASHINGS

A) Relevant IS codes and specification requirement.
      a) Bare metal thickness-minimum 0.5mm (metal thickness excluding thickness for Zinc aluminium Alloy coating & Colour coating).
      b) Yield strength – minimum 550MPA as per AS:1397.
      c) Coating – Zinc aluminium alloy not less than 150 gms/sq.m.
      d) Painting in external Face-Min 20 microns (Nominal) dry film thickness (DFT) of Poly-vinyl di fluoride (PVF2) over 5 microns (Nominal) primer coat.
      e) Painting on internal face-10 Microns (Nominal) dry film thickness (DFT) of Poly-vinyl di fluoride (PVF2) over 5 microns (Nominal) Primer coat shall be as per category 3 of AS: 2728.

B) Make of Galvalume Sheet: Bhushan Power & Steel Ltd.
C) Galvalume as per AS:1397 and painted with Poly-vinyl Di fluoride (PVF2)
D) Colour – Sky Blue (RAL-5012) on top side colour & White (RAL-9002) on bottom side colour.
**DATA SHEET FOR ROOF AND WALL CLADDING SHEETS**

Name of the project: Augmentation of Fuel & Flux Crushing Facilities (Package No.: 084), BSP, Bhilai.

Package No.: 064


A) Sheetin of conveyor gallery, Junction houses:

Permanently colour coated troweled Galvalume metal sheets (Zinc aluminium alloy coated not less than 150 gms/sq.m.) for roofing and wall cladding having high tensile steel sheets (Pv 550 Mpa) of 0.5mm thickness BMT as per AS: 1997.

B) Vendor (Source of supply):

Source Factory: Bhusan Power & Steel Ltd.,
VII. - Thelloloi, Post - Lapanga,
Distt. - Sambalpur (Odisha), India

C) Relevant IS code and specification requirement:

1) Specification provision

   a) Bare metal thickness – Minimum 0.5mm (Metal thickness excluding thickness for Zinc Aluminium alloy coating & colour coating)

   b) Yield strength – Minimum 550 MPA as per AS: 1997.

   c) Coating – Zinc Aluminium alloy 150 gms/m² (AZ 150 as per AS:1997)

   d) Painting in external face – Min. 20 microns (Nominal) Dry film thickness (DFT) of Poly-Vinyl Di Fluoride (PVF2) over 5 microns (Nominal) primer coat.

   e) Painting on internal face-12 microns (Nominal) dry film thickness (DFT) of Poly-vinyl di Fluoride (PVF2) over 5 microns (Nominal) primer coat shall be as per category 3 of AS: 2728.

2) Codal Provisions:

   a) Tolerance on thickness of bare metal shall be +0.06 mm as per IS: 15163.

3) Test certificate required as per approved manufacturing quality plan of M/s MECON

4) Colour of sheets and Ridge – Sky Blue (RAL-5012) on top side & White (RAL 9002) on bottom side.
PROFILE

DATA SHEET FOR ROOF/WALL CLADDING SHEETS

A) Relevant IS codes and specification requirement.
   a) Bare metal thickness—minimum 0.5mm (metal thickness excluding thickness for Zinc aluminium Alloy coating & Colour coating).
   b) Yield strength — minimum 550MPA as per AS: 1357.
   c) Coating — Zinc aluminium alloy not less than 150 gms/sq.m.
   d) Painting in external Face-Min 20 microns (Nominal) dry film thickness (DFT) of Poly-vinyl di fluoride (PVF2) over 5 microns (Nominal) primer coat.
   e) Painting on internal face-12 Microns (Nominal) dry film thickness (DFT) of Poly-vinyl di fluoride (PVF2) over 5 microns (Nominal) primer coat shall be as per category 3 of As: 2728.

B) Make of Galvalume Sheet: Bhushan Power & Steel Ltd.
C) Galvalume as per AS: 1397 and painted with Poly-vinyl Di fluoride (PVF2)
D) Colour of profile sheet & Ridge — Sky Blue (RAL-5012) on top side colour & White (RAL-9002) on bottom side.