



एनटीपीसी लिमिटेड

(भारत सरकार का उद्यम)

NTPC Limited

(A Govt. of India Enterprise)

(Formerly National Thermal Power Corporation Ltd.)

केन्द्रीय कार्यालय नोएडा

Corporate Centre NOIDA

Reference: CC:3100:104:4750

Date:21-11-18

From:	CTF AGM	To:	BHEL-Bhopal Heavy Electrical Plant, Piplani BHOPAL-462022
		CC:	skmahajan@bhelbpl.co.in sahay@bhelindustry.com ursidar@bhelbpl.co.in
SUBJECT : RSTPP, RENOVATION AND RETROFITTING OF ESP Please find enclosed following drawings/documents for necessary action at your end as indicated in purpose code.			
VENDOR DRG NO:	null		
NTPC DRG NO:	3120-104A-01-QVC-Q-026		
REVISION NO:	00		
DRG TITLE:	Quality Plan -Penthouse roofing sheets		
APP CATEGORY:	IV		
RELEASE DATE:	21-11-18		
COMMENTS:	Cat I with minor comment.		



Engineering Division
ISO 9001:2008 Certified

अभियांत्रिकी कार्यालय परिसर, प्लॉट नं.- ए 8ए, सेक्टर-24, पोस्ट बॉक्स नं.- 13, नोएडा (उ प्र) पिन-201 307

टेलिफोन नं.- 0120-2410333, 2410116 फैक्स-0120-2410136, 2410137

पंजीकृत कार्यालय: एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7 इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110 003

टेलिफोन नं.- 011-24361018 फैक्स-011-24361018, वेबसाइट: www.ntpc.co.in

ENGINEERING OFFICE COMPLEX, Plot No: A-8A, Sector-24, Post Box No: 13, Noida (UP), Pin-201 307

Telephone No: 0120-2410333, 2410116 Fax-0120-2410136, 2410137

Registered Office: NTPC Bhawan, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi-110 003

Telephone No: 011-24360100 Fax-011-24361018, Website: www.ntpc.co.in

PROFILER'S NAME & ADDRESS : Multicolor Steels (I) Pvt. Ltd., Plot No. 370-371, Sector - 3, Phase-4, Bawal, Haryana			MANUFACTURING QUALITY PLAN			DATE : 03.09.2018		PROJECT: RAMGUNDAM SITE				
Coil Manufacturer Details : Bhushan Power & Steels, Sambalpur, orissa/ JSW Steel, Kalmeshwar			ITEM : Permanently Colour Coated Metal Sheets for Roof & Cladding.			PAGE : 1 OF 2		MAIN SUPPLIER : M/S BHEL Ltd, RANIPET				
			NTPC NO: 3380-104A-01-026			QP No. : MSIP/L 18-19/1011		PO NO.: 4282021 dt. 29.08.2018				
			Rev No. 0									
SL. NO.	COMPONENTS & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS		
					M	C/N			D	M	C	N
1	Weight of galvanised coating (both sides inclusive)	To check the weight of coating	4	5	6	7	8	9	10	11		
1			Major	Measurement	100%	Approved Data Sheet	Approved Data Sheet /AS 1397	Test Report	✓	P	W	W
2	Chemical Composition of Bare metal	To check chemical analyses of bare metal	Major	Chemical	100%	Approved Data Sheet	Approved Data Sheet	Test Report	✓	P	V	V
3	Bare Metal Thickness	To check the thickness	Major	Measurement	100%	Approved Data Sheet	Approved Data Sheet / IS 513	Test Report	✓	P	W	W
4	Thickness of colour coating	To check the Coating	Major	Measurement	100%	Approved Data Sheet	Approved Data Sheet	Test Report	✓	P	W	W
5	Yield strength/UTS & % Elongation	To verify mechanical properties	Major	Mechanical Test	100%	Standard referred in approved Data Sheet	Standard referred in approved Data Sheet	Test Report	✓	P	W	W
6	Pencil Hardness of painted surface (2H)	To check hardness	Major	Mechanical Test	100%	AS 2728 /NTPC Specs	AS 2728	Test Report	✓	P	W	W
7	Impact Resistance	To check impact strength	Major	Mechanical Test	100%	AS 2728 /NTPC Specs	AS 2728	Test Report	✓	P	W	W
8	Bend Test	To check peeling of paint on bending	Major	Mechanical Test	100%	AS 2728 /NTPC Specs	AS 2728	Test Report	✓	P	W	W
9	Finish type of paint coating both sides	To check Coating	Minor	Certificate of Conformance	100%	Approved Data Sheet	Approved Data Sheet	Test Report	✓	P	V	V
10	Video Jet Printing 1.5m on sheet with date	To check colour	Major	Visual	100%	Indication of Marks	Marking	Inspection Report	✓	P	W	W
11	Colour Match of Batch	To check colour	Major	Visual	100%	Compliance of sheet colour with original RAL indicated in approved data sheet/ Dwgs	Colour to match as per approved data sheet & drawing.	Inspection Report	✓	P	W	W

Signature Not Verified

Date: 2018.11.01 10:49:45 IST

Reason: CAT IV

Location: EOC

LEGEND		FOR CUSTOMER USE		DOC No.:	
D : Records identified with "Tick" shall be essentially included by contractor in QA documentation.					
M : Manufacturer/Sub contractor; C : MAIN CONTRACTOR ; N : NTPC ; P : Perform, W : Witness V : Verification P/R : Perform at Coil Manufacturer's Works R : Review of TC at Profiler Works					
MANUFACTURER / SUBCONTRACTOR	MAIN SUPPLIER	REVIEWED BY		NAME & SIGN OF APPROVING AUTHORITY	

PROFILER'S NAME & ADDRESS : Multicolor Steels (I) Pvt. Ltd., Plot No. 370-371, Sector - 3, Phase-4, Bawal, Haryana				MANUFACTURING QUALITY PLAN				DATE : 03.09.2018 PAGE : 2 OF 2 QIP No. : MSIPL/ 18-19/1011 Rev No. 0				PROJECT: RAMAGUNDAM SITE			
ITEM : Permanently Colour Coated Metal Sheets for Roof & Cladding.				MAIN SUPPLIER : M/S BHEL Ltd, RAMIPET											
Coil Manufacturer Details : Bhushan Power & Steels, Sambalpur, orissa/ JSW Steel, Kalmeshwar				QIP No. : MSIPL/ 18-19/1011 Rev No. 0											
SL. NO.	COMPONENTS & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS					
1	2	3	4	5	6	7	8	9	10	11					
12	Salt Spray Test for 1000hrs	To check corrosion	Major	Chemical Test	Remark 1	ASTM B 117	No corrosion on both sides	Test Report	✓ P V	ASTM B 117					
13	Dimensions(after Profiling)	To check dimension	Major	Measurement	100%	Approved data sheet/Approved Dwgs	Approved data sheet/Approved Dwgs	Test Report	✓ W W	Tolerance as per IS 277					
14	Workmanship, Visual examination and appearance of profiled sheet		Major	Measurement/ Visual	100%	No surface defects and no peeling of colour	Approved Drawings/NTPC Tech Specs.	Inspection Report	✓ P W	At Profile Manufacturer					

Note:(1) Random three samples shall be selected out of total quantity offered for inspection during visit by NTPC & Contractor at coil manufacturer works for testing of coil.

Note:(2) Tests 1 to 11 shall be carried out at coil manufacturer's works before despatch of coils. SI no. 13 & 14 shall be carried out at Profiler's Works

Note:(3) Coil manufacturer's co related TCs also to be submitted for review.

Remarks: 1. For Salt spray test, minimum three samples shall be selected during inspection of coils by NTPC and any one to be sent for testing at 3rd party lab Spectro Analytical Labs. Test reports to be submitted for review and acceptance of NTPC authority.

		LEGEND D : Records identified with "Tick" shall be essentially included by contractor in QA documentation. M : Manufacturer/Sub contractor; C : MAIN CONTRACTOR ; N : NTPC ; P : Perform, W : Witness V : Verification P/R : Perform at Coil Manufacturer's Works R : Review of TC at Profiler Works		FOR CUSTOMER USE 		DOC No.:	
MANUFACTURER / SUBCONTRACTOR RAJESH KUMAR M		MAIN SUPPLIER RAJESH KUMAR M		REVIEWED BY		NAME & SIGN OF APPROVING AUTHORITY	

D.Y. MGR
 QA, BHEL, RAMIPET