

Reference : CC-ENGG-8003-001-102-PVM-H-001

Date : 17/01/2025

From : Vikas Khare
ADDL. GENERAL MANAGER

To : BHARAT HEAVY ELECTRICALS LTD
NEW DELHI
110049
IN

Cc : pmgvijay@bhel.in
ksbura@bhel.in

Subject : EPC Package, Sipat-Stage-III

Please find enclosed following drawings/ documents for necessary action at your end.

Vendor Drg. No. : 8003-001-102-PVM-H-001
Orgn. Drg. No. : 8003-001-102-PVM-H-001
Revision No. : 00
Drg. Title : PAINTING SCHEDULE OF SG
App. Category : CATREL
Release Date : 17/01/2025



Scan to verify

Comments : This is an Auto Archive document designed and developed by BHEL. Hence, BHEL has the entire responsibility to ensure fulfillment for technical specification and contractual requirement. Review and approval of the same from NTPC Engineering is not envisaged.

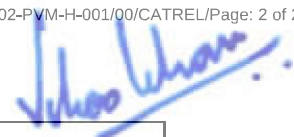


Name of the Project/ Package : Sipat Super Thermal Power Project -III 1x800MW, EPC Package, Sipat-Stage-III

Drawing / Document Number : 8003-001-102-PVM-H-001

Drawing / Document Title : PAINTING SCHEDULE OF SG

“We confirm that this document meets all the contract requirements including safety and statutory requirements and facilitate ease of operation and maintenance. In case any deviation is found, the Contractor shall carry out all required changes/ modifications without any cost implications to NTPC. In addition, Penalty on account of non-compliance of contract specification as deemed fit by the Employer shall be recovered”



Endorsement Sheet For Painting schedule

TO BE FILLED IN BY SUPPLIER AT TIME OF SUBMISSION

BHEL Doc. No: PL:C3-PS/1856

Project Name	NTPC SIPAT STPP STAGE III (1X800 MW)
Contract No	8003
Package Name	EPC PACKAGE
Main Supplier	BHEL
Manufacturer Name	-
Project/package Specific Document No.	8003-001-102-PVM-H-001
Drawing Title	PAINTING SCHEDULE OF SG
Reference Project Name	NTPC SINGRAULI STPP STAGE III (2X800 MW)
Reference Contract No	1150
Reference Package Name	EPC PACKAGE
Reference Main Supplier	BHEL
Reference Manufacturer Name	-
Reference Project/package Specific document No.	1150-001-102-PVM-H-006A
Reference Drawing Title	PAINTING SCHEDULE FOR SG & AUXILIARIES
<input checked="" type="checkbox"/> Certified that the item/component is identical to that considered for reference document approval.	
<input type="checkbox"/> That there are minor changes in the item/ component with respect to that considered for reference <i>PAINTING SCHEDULE</i> document approval and the same affect the reference document slightly as indicated below	



K. SRINIVASAN
MANAGER / PLANT LAB
BHEL-HPBP TRICHY

Date: 07.01.2025

NTPC (Approved by/Date/Seal)
CTF

PROJECT ENGG MANAGER

BHEL

CUSTODIAN NAME



एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)

NTPC Limited
(A Govt. of India Enterprise)
(Formerly National Thermal Power Corporation Ltd.)
(केंद्रीय कार्यालय नोएडा)
Corporate Center NOIDA

Reference : CC-ENGG-1150-001-102-PVM-H-006A

Date : 17/09/2024

From : Anirudh Sood
SENIOR MANAGER

To : BHEL PEM,NOIDA

Cc :

Subject : EPC package of Singrauli Stage-III

Please find enclosed following drawings/ documents for necessary action at your end.

Vendor Drg. No. : 1150-001-102-PVM-H-006A

Orgn. Drg. No. : 1150-001-102-PVM-H-006A

Revision No. : 01

Drg. Title : PAINTING SCHEME FOR SG & AUXILLIARIES

App. Category : CAT-I

Release Date : 17/09/2024



Scan to verify

Comments : Based on the document submitted through endorsement, the document is approved.



Engineering Division
ISO 9001:2008 Certified



अभियंत्रण 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, लोडू रोड, नई दिल्ली-110 003

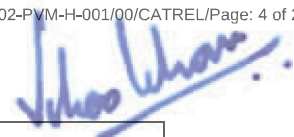
टेलिफोन नं.- 011-24361018 फैक्स-011-24361018, वेबसाइट: www.ntpc.co.in

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 24361000 Fax: 011 24361018, Website: www.ntpc.co.in



Endorsement Sheet For Painting schedule

TO BE FILLED IN BY SUPPLIER AT TIME OF SUBMISSION

BHEL Doc. No: PL:C3-PS/1840

Project Name	NTPC SINGRAULI STPP STAGE III (2X800 MW)
Contract No	1150
Package Name	EPC PACKAGE
Main Supplier	BHEL
Manufacturer Name	-
Project/package Specific Document No.	1150-001-102-PVM-H-006A
Drawing Title	PAINTING SCHEDULE FOR SG & AUXILIARIES
Reference Project Name	LARA SUPER THERMAL POWER PROJECT STAGE-II 2x800 MW
Reference Contract No	9587
Reference Package Name	EPC PACKAGE
Reference Main Supplier	BHEL
Reference Manufacturer Name	-
Reference Project/package Specific document No.	9587-001-102-PVM-H-006A
Reference Drawing Title	PAINTING SCHEDULE FOR SG & AUXILIARIES
<input type="checkbox"/> Certified that the item/component is identical to that considered for reference document approval.	
<input checked="" type="checkbox"/> That there are minor changes in the item/ component with respect to that considered for reference <i>PAINTING SCHEDULE</i> document approval and the same affect the reference document slightly as indicated below	
<p><u>PL:C3-PS/1834, rev. 01, Sheet 6 of 13.</u></p> <p>- colour shade black for hook is changed to Signal red in the painting schedule document.</p>	



K. SRINIVASAN
MANAGER / PLANT LAB
BHEL-HPBP TRICHY

Date: 09.09.2024

NTPC (Approved by/Date/Seal)
CTF

PROJECT ENGG MANAGER

BHEL

CUSTODIAN NAME



BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirapalli - 620 014

NTPC – SINGRAULI STPP, STAGE-III (2X800MW) - UNIT-I & II

Ref: PL: C3-PS/1834-Rev.00 & Transmittal ref: CC- ENGG-1150-001-102-PVM-H-006A Dt. 06.09.2024.

BHEL Reply against NTPC comments/ observations on the referred painting schedule as follows

1. **NTPC comment:** Sheet 6 of 13, Sl. No. 8, colour shade shall be signal red for hook.

BHEL reply: Noted & retained.

2. **NTPC comment:** Sheet 8 of 13, Sl. No. 11 – painting schedule depends on temperature as per specs 1.06.11, S. No.5, A-12, Part B.

BHEL Reply: Painting scheme followed as per NTPC spec 1.06.11, S. No.5, A-12, Part B only. Phosphating of forged valves has been proposed as per 1.06.11, Point No.2-Page 6 of 8, A-12, Part B "For valves below 65NB and temperature upto and including 540 DegC, Parkerizing/zinc phosphate corrosion resistant coating is also acceptable in lieu of Aluminum paint".

3. **NTPC comment:** Sheet 8 of 13, Sl. No. 11 (1AS2) – Temperature more than 95°C for soot blower component, design for temperature >95°C to be used.

BHEL Reply: DA head valve assembly having design temperature >95°C is given with heat resistant aluminum paint in note 19, sheet 11 of 13. Other soot blower components having temperature <95°C only.

4. **NTPC comment:** Sheet 11 of 13, Sl. No. 19 – PS10 not mentioned in spec. Painting schedule as per specs for temperature >95°C.

BHEL Reply: PS10 refers to heat resistant aluminum IS13183 Gr.I based painting scheme for temperature >400°C & up to 600°C. Painting scheme for temperature >95°C i.e. heat resistant aluminium IS13183 Gr.I (PS10) & Gr.II (PS9) is followed as per NTPC spec.

5. **NTPC comment:** Sheet 11 of 13, Sl. No. 25 – Painting as per applied in steel structure.

BHEL Reply: Noted. As informed in the video conference held on subject, these components are not under the supply scope of BHEL, trichy.

Document is submitted for approval.

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(A Govt. of India Enterprise)
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(केंद्रीय कार्यालय नोएडा)
Corporate Center NOIDA

Reference : CC-ENGG-9587-001-102-PVM-H-006A

Date : 25/06/2024

From : RAMESH CHANDRA SHIAL ENGINEER	To : BHARAT HEAVY ELECTRICALS LTD NEW DELHI 110049 IN
Cc : sudipt@bhel.in dipakbag@bhel.in	
Subject : EPC Package Please find enclosed following drawings/ documents for necessary action at your end.	
Vendor Drg. No. : HPBP-00-9587-328 Orgn. Drg. No. : 9587-001-102-PVM-H-006A Revision No. : 01 Drg. Title : Painting scheme for SG & Auxilliaries App. Category : CAT-I Release Date : 25/06/2024	 Scan to verify
Comments : No Comment	



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अभियंत्रण विभाग 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, लोडू रोड, नई दिल्ली-110 003

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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, Lodhu Road, New Delhi-110 003
Telephone No: 011 24360100 Fax: 011 24361018, Website: www.ntpc.co.in

BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirapalli - 620 014

III & IV

Ref: PL: C3-PS/1834-Rev.00 & Transmittal ref: CC- ENGG-9587-001-102-PVM-H-006A Dt. 18.03.2024.

BHEL Reply against NTPC comments/ observations on the referred painting schedule as follows

1. **NTPC comment:** Sheet 3, Sl. No. 3, colour shade shall be RAL 5012 for boiler columns/ Girder/ Bracings.

BHEL reply: Colour shade modified for boiler columns, Girder, Bracings in the revised document.

2. **NTPC comment:** Sheet 10, Sl. No. 8 – This includes duct inside surfaces, truss, beams, gusset plate, guide vanes, divider plates, rectifier, divider vanes etc. coming in the gas path.

BHEL Reply: comment included.

3. **NTPC comment:** Sheet 13 of 13 – Finish coat shall be 3 as per talcher approved document.

BHEL Reply: It is typographical error. Finish coat shall be 1 as per contract.

Revised document is submitted for approval.

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Tiruchirappalli - 620 014



NTPC Drawing No: 9585-001-102-PVM-H-006A

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Rev. No	Date	Details of revision	Remarks
00	04-03-2024	New	Prepared in line with NTPC Bidding Doc. No. CS-9587-001R-2 & related amendments and clarifications to Bidding Documents issued by NTPC.
01	14-06-2024	Sheet 3, Sl. No. 3(i); Sheet 12, Sl. No.2 - RAL 5012 included for primary structures. Sheet 10, Sl. No. 8 – comment included.	Modified as per comments for CAT.II approval by NTPC ‘Transmittal for comments on painting scheme for SG & Auxiliaries’ Ref: CC:ENGG-9587-001-102-PVM-H-006A Dt.18.03.2024.

Sl. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
1 PS10	<u>Collector & Separator Vessels (Except Internals), Supports</u> 04 –321,323;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminum Paint to IS 13183 Gr. I DFT 20 µm per coat	1	--	--	Heat Resistant Aluminum IS 13183 Gr. I DFT 20 µm per coat	1	Aluminum	40
2 PS5	<u>Collector & Separator Vessels internals</u> and Dd items (threaded and machined surfaces only) 04-347;07-331, 360, 361, 362, 393; 08-911;912,913;09-304;12-306, 314, 317, 12-324, 327, 328, 344, 348, 354, 393; 17-304,306,319;19-306,307;21-602, 605, 21-700; 24-352,700,803,813,814,818, 827, 24-842;28-700; 32-700; 35-190, 701,721,722,723,724, 725, 726,727, 35-728, 730;36-700, 701, 721, 722, 723; 39- 700; 41-710;42-700,710;43-710; 45-710;47-710; 48-019, 700;65-710;67-710; Foundation materials: 35-010, 39-012;	SSPC – SP3 Power Tool Cleaning	Rust Preventive Fluid to PR: CHEM: 09 – 04 DFT=25µm per coat	1	--	--	--	--	--	25
3 (i) PS19C8	<u>Boiler supporting structures,</u> <u>Columns, Girders, Bracings</u> 35-131 to 138,141 to 148,151 to 158; 35-181 to 188,211,212; 35-311,312,321,322,331,332,341,342; 35-351,352,361,362,371,372,374,375; 35-511 to 518,521 to 528,531 to 538,	Blast cleaning to SA2 ½ (Near white metal) conforming to ISO 8501-1 with surface profile 40-60 µm	Inorganic Ethyl Zinc Silicate Primer DFT=70µm per coat (refer sheet 12 SL.no.11 for details)	1	Polyamide cured epoxy with MIO content. Minimum DFT 100µm per coat (refer sheet 12 SL.no.10 for details)	1	Aliphatic isocyanate cured acrylic finish paint DFT 70µm (refer sheet 12 SL.no.2 for details)	1	Light Blue Shade To RAL 5012	240

For structural steel, all coats shall be applied at shop.

S. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT μm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
3 (ii) PS19C4	Galleries, Stair-ways & inter connecting Walkways 36-111 to 113,151 to 153,311 to 316,321 to 326,331 to 338,341 to 346,351 to 356,361 to 366,371 to 377,381 to 383,391 to 395,610,613,620,621,630,631,740; 38-210,299,310,410,510,610,710; ID system structures. 39-101,102,141,142,150,299,300; 39-304,305,306,993; <u>Duct supports</u> 48-015,115,145,205,225,265,385,435,465; 49-485,495,665; Buck stays 08-001,003,006,007,111,380,501; 08-503,901,910; Platforms & Beams: 35-213,214,221,222,231,232; 35-381 to 388,390,441 to 448,451 to 458,995;	Blast cleaning to SA2 ½ (Near white metal) conforming to ISO 8501-1 with surface profile 40-60 μm	Inorganic Ethyl Zinc Silicate Primer DFT=70 μm per coat (refer sheet 12 Sl.no.11 for details)	1	Polyamide cured epoxy with MIO content. Minimum DFT 100 μm per coat (refer sheet 12 Sl.no.10 for details)	1	Aliphatic isocyanate cured acrylic finish paint DFT 70 μm (refer sheet 12 Sl.no.2 for details)	1	Grey White Shade To RAL 9002	240
4 PS9	<u>Components >95° C Insulated other than components in SLNo.7 & 9</u> Max temperature 400 deg.C Ring Headers, Down Corners, Hot air Headers outside the gas path etc. 05-137,147,155,227,231,251,327,330,350; 07-102,110,125,217,223,231,232; 12-178, 850,852, 900; 17-407,476,807; 18-001,002,010,701; 19-701,702,903;21-600;24-811, 824,828; 24-836,837;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20 μm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20 μm per coat	1	Aluminium	40
For structural steel, all coats shall be applied at shop.										

*-In lieu of dip painting, 2 coats of brush painting of Red Oxide Zinc Phosphate primer to a coating thickness of 60u is also permitted in line with Sr.No.9.

Sl. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate Coat		Finish coat			Total DFT μm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
8 PSIA1	Miscellaneous and casing sheets 04-147,547; 07-409,431,460,461,462,502,503,509,531,560; 12-506,600,906,907;17-919;21-601,604,606; 24-350,351,354, 801,804,805,806,808,809, 24-810,815,817,825,826,835,840,841,855, 24-950,955,960,966 to 969;30-233,234; 36-396,398,611; 38-611; Fuel firing: 41-350,390,500,997; Steam blowing piping 42-001,002,005,010,046,065,070,120,152,154, 42-157,997; 43-004,005,104,105,200,997; 45-200,801,802, 804,805,858,997; 47-281,283, 858,997; Duct plates, expansion joints 48-911,912; Coal Feeding 65-736,997; 67-204,272,276, 283,801,802,803,997; 95-088,091,485;96-186;97-585, 592; \$Handling equipment:99-099,100,300,400; Impulse lines: 24-800 Seal air ducting: Cold Air duct:48-012,014, 112,114, 141; Tempering Air: 48-142,144;	SSPC-SP3/ Power Tool Cleaning	Red Oxide Zinc Phosphate Primer (Alkyd Base) to IS 12744 DFT= 30 μm per coat	2	--	--	Synthetic Enamel paint (Long Oil Alkyd) to IS 2932 DFT= 20 μm per coat	2	Smoke Grey Shade No: 692 of IS5	100

\$ - Final Shade is Golden yellow for under hung crane, Chain Pulley Block, Ratchet Lever and Trolley with hoist. Black shade for Hook.

Sl. No.	PG/MA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT μm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
9 PS3	Components $>95^\circ\text{C}$ coming in the gas path, Headers, Commissioning Spares & erection Materials etc., 06-400,401,431,434,437,441,444, 06-447,451, 453,455,500,501,515,731,732, 06-734,735,737,741,744,745,747,751,752,753, 06-755, 759; 07-309,315,316,318,423, 993; 10-182,183,184,185; 11-474; 12-993;17-174,504,506,900,903; 19-704,753,763,783,793,802,850,851,852; 21-987,988; 24-822,823, 987,988, 989, 993; 30-103,105,212,215,219,223,224,235; 31-010,104; 32-010,210,810; 35-993; 36-993;37-010;38-993; 41-988; 42-858,988; 48-993; 65-200; 67-200; 95-988;96-193; 97-282,287,297,298,407,577,590,591; 97-593,596,599;99-501,514;	SSPC-SP3/ Power Tool Cleaning	Red Oxide Zinc Phosphate Primer (Alkyd Base) to IS 12744 DFT= 30 μm per coat	2	--	--	No paint	No paint	Red oxide	60
10 PS6	<u>Hand rails and posts, ladders / rungs</u> 35-821,822,823,851; 36-820,821,822,823,851,852,853; <u>Floor Grills, Step treads</u> 35 – 811,812; 36-811,812,813,814; 38-810,820,850; 39-810,820,850;	SSPC – SP8/ Acid pickling	Hot dip Galvanizing to a coating weight of 610 g/m ² (minimum) and to a coating thickness of 87 μm . Refer Notes given below **							

Notes **: The Guard plates, Hood Ladders, Stringer channels, angles and plates shall be painted as per painting scheme prescribed in Sl. No: 03.

PAINTING SCHEME FOR VALVES

Sl.No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT μm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
11 @PS 9/10	<u>Cast carbon steel valves (Conventional)</u> <u>Cast alloy steel valves (Conventional)</u> <u>All API valves, QCNRV, SV & SRV Silencers,</u> <u>21-800,825; 24-885;</u> <u>Safety valves & ERV</u> <u>21-850; 24-880,881,883;</u> <u>Forged valves</u>	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr.II/I	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr.II/I	1	Aluminium	40
			Phosphating to a coating of weight of 1500 mg per Sq.ft.	--	--	--	--	--	--	--
1AS2	<u>Soot Blower components</u> <u>20-051,054,201,204,511,794,962</u>	SSPC-SP3/ Power Tool Cleaning	Red Oxide Zinc Phosphate Primer (Alkyd Base) to IS 12744 DFT= 30 μm per coat	2	--	--	Syn. Enamel paint (Long Oil Alkyd) to IS 2932 DFT= 20 μm per coat	2	Verdigris Green Shade No. 280 of IS5	100
			Heat Resistant Aluminium Paint to IS 13183 Gr.I	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr.I	1	Aluminium	40

@ Heat resistant silicone based aluminium paint to IS 13183 Gr.II shall be applied for temperature up to 400 deg.C, Gr. I shall be applied for temperature >400 deg.C and up to 600 deg.C

*- For components other than CLH & VLH, painting scheme shall be as given in Sl. No. 8.

Painting Scheme – Details for procurement & application purposes

Sl. No.	Generic nature of paint	Theoretical Covering Capacity Sq.m per Litre.	No. of pack	Volume solids, % (min)	DFT in microns per coat (approx.)	Shade	Shade No. to IS5	Mode of appln.	Over coating interval, Hrs.
1	Epoxy Zinc rich primer to IS14589 Gr.II (latest)	8	2	35	50	Grey	--	Spray	24
2	Two-pack aliphatic Isocyanate cured acrylic finish paint (solid by volume minimum 55% (min) with Gloss retention (SSPC Paint Spec No 36, ASTM D 4587, D 2244, D 523) of Level 2 (after minimum 1000 hours exposure, Gloss loss less than 30 and colour change less than 2.0 Delta – E).	13	2	55	70	Grey white/ Light blue	RAL 9002/ RAL 5012	Airless Spray	24
3	Heat resistant Aluminium paint to IS 13183 Grade I/II (latest)	10	1	-	20	--	--	Brush / Spray	24
4	Red oxide zinc phosphate primer paint to IS 12744 (latest)	10	1	--	30	-	--	Brush / Spray	12
5	Red oxide Zinc Phosphate Dip coat primer paint to PR: CHEM: 09-03	10	1	--	35	--	---	Dip	12
6	Long oil alkyd synthetic enamel finish paint to IS2932 (latest)	17	1	--	20	Reqd. shade	Corrpdg. Shade no.	Brush / Spray	12
7	Temporary Rust preventive fluid to PR: CHE: 09 – 04	10	1	--	25	--	--	--	12
8	General purpose Aluminium paint to IS 2339 (latest)	10	2	--	20	Aluminum	--	Brush	12
9	HB Chlorinated Rubber Based Zinc Phosphate Primer-Colour Grey	8	1	40	50	Grey	--	Brush / Spray	12
10	Two component polyamide cured epoxy based polyamide cured MIO pigmented intermediate coat. (containing lamellar MIO minimum 30% on pigment)	8	2	80	100 (min)	Brown/ grey	--	Airless Spray	24
11	Two component moisture curing zinc (ethyl) silicate primer, metallic Zinc content 80% (min), Zinc dust quality shall be as per ASTM D 520 Type 2.	8	2	60	70 (min)	Grey	--	Airless Spray	24

The covering capacity of paints specified is only approximate.

The paints and Rust Preventive fluid shall be procured from BHEL's approved suppliers.

Painting of Damaged Areas

(Areas where the paint has deteriorated badly by erosion and areas where the paint film has lost its adhesion and where the steel has rusted appreciably, should be repainted as follows)

Sl.No.	Components	Surface Preparation	Primer coat		Intermediate coat		Finish coat			Total DFT μm
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
1	Paint damaged components fall under Sl.no: 3	Power tool cleaning of minimum 6" of surrounding areas to bare metal	Epoxy zinc rich primer to IS 14589 Grade II	2	As given in scheme	1	As given in scheme	1	As given in scheme	As given in scheme