



**TOYO ENGINEERING INDIA LIMITED**

JOB NO. : 6261

PROJECT : DIESEL HYDROTREATER PROJECT (DHT)

OWNER : M/s. HINDUSTHAN PETROLEUM CORPORATION LIMITED (HPCL), VISAKH, ANDHRA PRADESH.

**ANNEXURE - IV(A)**

**APPROVED BRAND NAMES**

Sr. NO.	PAINT SYSTEM TABLE	GENERIC PAINT NAME	MANUFACTURER'S NAME				
			M/s. SHALIMAR	M/s. BERGER	M/s. ASIAN	M/s.SIGMA COATINGS	M/s.International Paint
1	1,3,15,17	ALKYD ZINC PHOSPHATE PRIMER	TUFFKOTE HB ZINC PHOSPHATE PRIMER (9110-41) 30-50 µm PER COAT	BISON HB ZINC PHOSPHATE PRIMER 35-50 µm PER COAT	APCOMIN HB ZINC PHOSPHATE PRIMER	7131 SIGMAFERRO PRIMER ZP	Interprime Primer
2	1	ALKYD H.B. MIO PAINT	TUFFKOTE HB M10 COATING (9110-42) 35-50 µm PER COAT	BISON HB M10 COATING 60-75 µm PER COAT	APCOMIN HB MIO PAINT	7244 SIGMAFERRO MIO COAT	Interlac MIO Coat
3	2	MODIFIED ALKYD MEDIUM SUITABLY PIGMENTED CHEMICAL RESISTANT SYNTHETIC ENAMALE	SYNTHETIC ENAMEL 25 µm PER COAT	BISON CR ENAMEL	APCOMIN SYNTHETIC ENAMEL		Interlac Finish Coat
4	3	BITUMINOUS PAINT	TUFFKOTE HIGH BUILD BITU BLACK 9110-45 75-100 µm PER COAT	BP HIGH BUILD BLACK 90-100 µm PER COAT	ASAIN SUPER SERVICE HB BLACK	7102 SIGMA EMALINE 3000	Intertuf 16
5	4	COAL TAR MASTIC	ONLY SHALIMASTIC HD OF M/S. STP LIMITED IS AVAILABLE. DFT 140-150 µm PER COAT TO A TOTAL MINM. DFT OF 420 µm	ONLY SHALIMASTIC HD OF M/S. STP LIMITED IS AVAILABLE. DFT 140-150 mm PER COAT TO A TOTAL MINM. DFT OF 420 mm	ASAIN SUPER SERVICE HB BLACK	ONLY SHALIMASTIC HD OF M/S. STP LIMITED IS AVAILABLE. DFT 140-150 mm PER COAT TO A TOTAL MINM. DFT OF 420 mm	
6	5, 10	SURFACE TOLERANT SELF PRIMING EPOXY	EPIPLUS 56 100 - 125 µm PER COAT	BERGER PROTECTIOMASTIC 125-175 µm PER COAT	RUST -O-CAP	7428 SIGMACOVER ST	Interseal 547
7	6	EPOXY BASED ZINC PHOSPHATE PRIMER	EPIGARD 4 ZINC PHOSPHATE PRIMER RED (9110-06) 35-50 µm PER COAT	EPIPLUS 610 PRIMER 25-35 µm PER COAT	APCODUR HB ZP PRIMER	A)7412 SIGMACOVER CM PRIMER b) 6281 SIGMA COVER EP PRIMER/ BUILDCOAT	Intergard 251
8	6	HIGH BUILD EPOXY ENAMEL	EPIGARD TL HB (9110-14) 75-100 µm PER COAT	EPIPLUS 4 HIGH BUILD COATING 100-125 µm PER COAT	ASIAN EPOXY HB COATING	A) 7456 SIGMACOVER CM COATING B) 7433 SIGMAGUARD EHB	Intergard Finish
9	6,8,19	INORGNIC ZINC PRIMER	TUFFKOTE ZILICATE 9110-25 65-75µm PER COAT	ZN ANODE 304 65-75µm PER COAT	APCOSIL 605	7558 SIGMA TORNUSIL MC 58	Interzinc 12 **
10	7	COAL TAR EPOXY MASTIC	ONLY SHALIMASTIC EHD OF M/S. STP LIMITED IS AVAILABLE.	ONLY SHALIMASTIC EHD OF M/S. STP LIMITED IS AVAILABLE.	RUST -O-SEAL	ONLY SHALIMASTIC EHD OF M/S. STP LIMITED IS AVAILABLE. DFT 140-150 mm PER COAT TO A	Intertuf 262 ( Tar Free Epoxy Mastic)
11	8	COAL TAR EPOXY	BIPIGARD "S" (9110-18) 80-125 µm PER COAT	EPIPLUS 5 100-125 µm PER COAT	ASIAN COAL TAR EPOXY PAINT	7472 SIGMA TCN 300	Intertuf 262 ( Tar Free Epoxy Mastic)
12	9	CHLORINATED RUBBER BASED ZINC PHOSPHATE PRIMER	CHLOROKOTE ZP PRIMER (9110-27) 30-50 µm PER COAT	LINOSOL HB ZINC PHOSPHATE PRIMER 30-50 µm PER COAT	ASIOCHLOR CP 620	7321 SIGMA NUCOL UNICOAT	NA
13	9	CHLORINATED RUBBER PAINT	CHLOROKOTE FINISH (9110-29) 30-40 µm PER COAT	LINOSOL CHLORORUBBER HB COATING 50 µm PER COAT	ASIAN CHLORINATED RUBBER HB COATING	7308 SIGMA NUCOL FINISH	NA
14	5, 10	EPOXY ALUMINIUM	EPIGARD 4 ALUMINIUM (9110-13) 40 µm PER COAT	EPIPLUS 4 ALUMINIUM 25-30µm PER COAT	RUST-O-Cap ES ALUMINIUM	7428 SIGMACOVER ST ALUMINIUM	Intergard 410 Aluminium
15	1	ALUMINIUM PAINT IS-2339	ALUMINIUM PAINT 20 µm PER COAT	ALUMINIUM PAINT 20 µm PER COAT	ALUMINIUM PAINT	7264 SIGMA ALUMINIUM	Intertherm 891
16	11, 14	HEAT RESISTANT ALUMINIUM UPTO 250° C	HEAT RESL. AL. PAINT HR LUSTROL-9110 30-15µm PER COAT	FERROTOL HR ALUMINIUM PAINT 15-20µm PER COAT	ASIAN HEAT RESISTANT ALUMINIUM PAINT	7264 SIGMAFERRO ALUMINIUM	Intertherm 891
17	12	HEAT RESISTANT ALUMINIUM UPTO 250-400° C	LU STROTHER HT 400 9110-31 12 µm PER COAT	LUMEROUS HR 47 15-20 µm PER COAT	HEAT RESISTING SILICONE ALUMINIUM PAINT	7261 SIGMAINE ALUMINIUM HR 500	Intertherm 972 / 50
18	13	HEAT RESISTANT ALUMINIUM UPTO 400-650° C	LU STROTHER HT 600 9110-32 15µm PER COAT	LUMEROUS HR 143 15-20 µm PER COAT	APCOTHERM HR 600	7567 SIGMATHERM SUPER THERMOVIT 600	Intertherm 972 / 50
19	14	HEAT RESISTANT BITUMINOUS UPTO 250° C	HT CHIMNEY BLACK 9110-33 30µm PER COAT	FERROTOL STACK BLOCK 30-40µm PER COAT	APCOMIN EXTERIOR BOILER COMPOSITION	-	
20	15	HB ZINC CHROMATE PRIMER 1 PACK SYNTHETIC MEDIUM PIGMENTED WITH ZINC CHROMATE			APCOMIN HB ZINC CHROMATE PRIMER		
21	16	POLYURETHANE COATING 2 PACK, ACRYLIC RESIN WITH POLYURETHANE HARDENER PIGMENTED			APCOTHANE CF 676		



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## ANNEXURE - IV(B)

### RECOMMENDED COATING MATERIAL AND MANUFACTURERS FOR GLASS FLAKE EPOXY SYSTEM



Sr. NO.	Manufacturer	Primer	Intermediate Paint	Finish Paint
1	M/s Akzo Nobel Coating	Interplus 256	Interzone 505	Interzone 990
2	M/s Sigma Coatings	Sigma Cover primer	Sigma cover TCP/CSZ Glass flake	Sigmadur 188
3	M/s Jotun Pints	Jotamastic 87	Marathon	Hardtop A/S
4	M/s Paladin Paints and Chemicals	Vegepox Mastic 2285	Vegepox 1284	Vegathane FP 3641
5	M/s Berger Paints Ltd	Protectomastic	Epilux super build Glass flake epoxy	Berger acrylic polyurethane
6	M/s Kirloskar Brothers	Plasmet ZF	Plasmet ZE	Can be procured from any HPCL approved paint manufacturer
7	M/s Chemtreat India Limited (Atlas Minerals and Chemicals Coproration, USA)	Chempruf Epoxy primer	Chempruf 121 primer	URE KLAD 200

### RECOMMENDED COATING MATERIAL AND MANUFACTURERS FOR SPLASH SYSTEM



Sr. NO.	Manufacturer	Type of Coat
1	M/s Akzo Nobel Coatings India Private Limited	Interline 982 and Interzone 954
2	M/s Chemco International Limited , UK	Diver Coat RA 500 UW-LV
3	M/s Chugoko, Mumbai	Permaster WE 300 Undercoat and WE 300 finsh
4	M/s Jotun Paints Ltd Chennai	Marathon