

TENDER SPECIFICATION

BHEL: PSSR: SCT: 1508

FOR

HANDLING AT SITE STORES /STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE ASSY, ERECTION, TESTING AND COMMISSIONING OF POWER CYCLE PIPING AND APPLICATION OF REFRACTORY & INSULATION WORKS FOR BOILER, ESP, POWER CYCLE PIPING etc AND SUPPLY & APPLICATION OF FINAL PAINTING FOR POWER CYCLE PIPING & INSULATION OF PACKAGE-A (UNIT-1) AND PACKAGE –B (UNIT-2) OF 2X800 MW SETS

at

SRI DAMODARAM SANJEEVIAH TPP,
KRISHNAPATNAM, NELLORE DT, AP.

CORRIGENDUM –I



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035.

CORRIGENDUM -1, Date: 10/08/2012
TO TENDR SPECIFICATION BHEL PSSR SCT 1508
CLARIFICATIONS FOR 2 X 800 MW SRI DAMODARAM SANJEEVIAH THERMAL
POWER PROJECT

One of bidders sought clarification in the above tender and BHEL clarifications are furnished below for information

SNO	REFERENCE CLAUSE OF TENDER DOCUMENT	PREVAILING CONDITIONS IN THE TENDER	QUERY	BHEL'S CLARIFICATION
1.	CL 1.4.1 of Vol 1A,Chapter-IV,page-42 of TCC	Higher capacity crane	We understand that BHEL will not provide the Higher Capacity crane for the purpose of erection as and when required along with operator and fuel. Please confirm and clarify the same	Tender conditions prevail
2.	CL 1.5.1 of Vol 1A Chapter-v of TCC	Time Schedule	There is a difference of maximum of 7 months for commencement of package –B (unit-2) from the starting date of package-A(unit-1). Please confirm the starting date & completion period of package-B for enabling us to submit our offer accordingly.	Tender conditions prevail
3.	Cl 2.8.4 of Volume-1A part-II,chapter-11 of TCC,page-98	Final Painting	<ol style="list-style-type: none"> 1. Please provide the breakup quantity for the Insulated and Un-insulated piping 2. Please provide the service temperature ranges of the pipeline to select the painting materials 3. Also give details for the list of selected paints for insulated and un-insulated pipelines 	For 1: Pipes coming in PGMA 80-300,301,304,310,312,320,321,342,343,351,395,425,432,433,451,452,453,454,455 & 81-060 are insulated. Remaining PGMA's are not insulated. The above indicated PGMA's are tentative and for information only. For 2&3: Please refer the painting Scheme and chapter for final painting already available in the tender.

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SNO	REFERENCE CLAUSE OF TENDER DOCUMENT	PREVAILING CONDITIONS IN THE TENDER	QUERY	BHEL'S CLARIFICATION
4.	CL 4.1.5 of SCC page No 8	Welding electrodes for CS, AS, SS, Pipes and structural steel work	Please provide us the names of approved manufactures of welding electrodes along with brand names to be used for the proposed work	Tentative approved electrode List enclosed for information and applicable approved electrode list will be issued during execution of work
5.	Weight schedule volume-1A HP Piping	Power Cycle piping-HP piping including valves- 493MT	Kindly provide the breakup for the quantities of alloy steel and carbon steel with material specification. Also provide the breakup for IBR and NIBR piping quantities. Please confirm	Refer Erection Welding Schedule for material specification. The missed EWS in the tender is enclosed herewith for information.
6.	Weight schedule volume-1A LP Piping	LP piping including valves- 232MT	Kindly provide the breakup for the quantities with material specification. Also provide the breakup for IBR and NIBR piping quantities. Please confirm	

Note

1. BIDDERS TO SUBMIT THE PRICE BIDS OF **PACKAGE -A & PACKAGE -B** SEPARATELY IN **SEPARATE** SEALED COVER SUPERSCRIBING THE PACKAGE AND TENDER SPECIFICATION DETAILS
2. ALL OTHER CONDITIONS REMAIN SAME

AGM/CONTRACTS
BHEL/PSSR/CHENNAI

BHARAT HEAVY ELECTRICALS LIMITED

LIST OF APPROVED WELDING CONSUMABLES SUPPLIERS AS ON : 07.01.2012.

SL NO.	MATL GROUP	SPECIFICATION	SUPPLIER CODE	VENDOR NAME / PLACE	BRAND NAME	APPLICATION FOR	NATURE
1	ATFFL	SAW FLUX WCPI-412	10081	ESAB INDIA LTD	OK.FLUX 10.81LS		
2	DRMFL	SAW FLUX WCPI-403	20047	NIKKO BOEKI COMPANY,JAPAN	MF-38		
	DRMFL	SAW FLUX WCPI-403	10305	WELD WELL SPECIALITY PVT LTD	MF-38		
	DRMFL	SAW FLUX WCPI-403	11712	TAPADIA ENGINEERS & TRADERS P.LTD.	TAPADIA GR-80M		
3	FINFL	SAW FLUX WCPI-405	11299	JHAVERI WELDFLUX LTD	CYLWELD-44		
	FINFL	SAW FLUX WCPI-405	19371	NDT FLUXES,RAIPUR	NDT WELD 50 (S)		
4	HESFL	ER309LMO	20476	AB.SANDVIK STEEL			
5	IMPFL		10081	ESAB INDIA LTD	OK FLUX.10.62		
5A	IMTFL	SAW FLUX WCPI-411	10081	ESAB INDIA LTD	OK.FLUX 10.71L		
6	MIGW1	ER80S-G (1/2MO) GMAW WIRE	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	BOHLER DMO - 1G		
	MIGW1	ER80S-G (1/2MO) GMAW WIRE	20563	BOHLER THYSSEN SCHWEISSTECHNIK	UNION I Mo		
	MIGW1	ER80S-G (1/2MO) GMAW WIRE	20047	NIKKO BOEKI COMPANY,JAPAN	MGS-M		
	MIGW1	ER80S-G (1/2MO) GMAW WIRE	10305	WELD WELL SPECIALITY PVT LTD	MGS-M		
7	MIGW2	ER80S-G (1CR 1/2MO) GMAW WIRE	21461	INDUSTRIA NAZIONALE ELETTRODI S.p.A.,ITALY	INEFIL B2		
	MIGW2	ER80S-G (1CR 1/2MO) GMAW WIRE	91033	MERIDIAN EXPORTS	INEFIL B2		
	MIGW2	ER80S-G (1CR 1/2MO) GMAW WIRE	21411	METRODE PRODUCTS, U.K.	METRODE ER80S-B2		

	MIGW2	ER80S-G (1CR 1/2MO) GMAW WIRE	20047	NIKKO BOEKI COMPANY,JAPAN	MGS-1CM		
	MIGW2	ER80S-G (1CR 1/2MO) GMAW WIRE	10305	WELD WELL SPECIALITY PVT LTD	MGS-1CM		
8	MIGW3	ER90S-G(2.25CR 1MO) GMAW WIRE	20563	BOHLER THYSSEN SCHWEISSTECHNIK	UNION I CrMo 910		
	MIGW3	ER90S-G(2.25CR 1MO) GMAW WIRE	21461	INDUSTRIA NAZIONALE ELETTRODI S.p.A.,ITALY	INEFIL B3		
	MIGW3	ER90S-G(2.25CR 1MO) GMAW WIRE	91033	MERIDIAN EXPORTS	INEFIL B3		
	MIGW3	ER90S-G(2.25CR 1MO) GMAW WIRE	21411	METRODE PRODUCTS, U.K.	METRODE ER80S-B3		
	MIGW3	ER90S-G(2.25CR 1MO) GMAW WIRE	20047	NIKKO BOEKI COMPANY,JAPAN	MGS-2CM		
	MIGW3	ER90S-G(2.25CR 1MO) GMAW WIRE	10305	WELD WELL SPECIALITY PVT LTD	MGS-2CM		
	MIGW3	ER90S-G(2.25CR 1MO) GMAW WIRE	20011	BOHLER SCHWEISSTECHNIK AUSTRIA			
9	MIGW4	ER347 GMAW WIRE	91033	MERIDIAN EXPORTS	UTP A 68		
	MIGW4	ER347 GMAW WIRE	20047	NIKKO BOEKI COMPANY,JAPAN	MGS-347Si		
	MIGW4	ER347 GMAW WIRE	10305	WELD WELL SPECIALITY PVT LTD	MGS-347Si		
	MIGW4	ER347 GMAW WIRE	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP A 68		
10	MIGW5	ERNICR3 GMAW WIRE	20047	NIKKO BOEKI COMPANY,JAPAN	MGS-70NCb		
	MIGW5	ERNICR3 GMAW WIRE	10305	WELD WELL SPECIALITY PVT LTD	MGS-70NCb		
	MIGW5	ERNICR3 GMAW WIRE	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP A 068 HH		
	MIGW5	ERNICR3 GMAW	11784	VENUS WIRE INDUSTRIES PRIVATE	VENUS Ni Cr 3		

		WIRE		LIMITED			
11	MIGW6	MIG ER90S-B9 GMAW WIRE	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	BOHLER C9 MV- 1G		
	MIGW6	MIG ER90S-B9 GMAW WIRE	20563	BOHLER THYSSEN SCHWEISSTECHNIK	THERMANIT MTS-3		
	MIGW6	MIG ER90S-B9 GMAW WIRE	21411	METRODE PRODUCTS, U.K.	9CrMoV-N MIG		
	MIGW6	MIG ER90S-B9 GMAW WIRE	21410	OERLIKON WELDING LTD., SWITZERLAND			
12	MIGW7	ER70S-6 CO2 WIRE	10785	ADOR WELDING LIMITED	AUTOMIG - 1	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	14791	ANAND ARC LTD.,CHENNAI.	ANAND MIG 1	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	10081	ESAB INDIA LTD.,CHENNAI	ESAB MW1	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	16166	EVERSHINE WIRES	SHINE ARC -1	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	16661	KLINWELD WIRES PVT. LTD.,MUMBAI.	KLINWELD.	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	15100	MANTEK WIRESS	MANTEK MIG	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13906	MARUTI WELD LTD.	MARUTI MIG	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	14340	NALLI ARC INDUSTRIE	NALLI ARC	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	16662	NATIONAL ENGINEERING ENTERPRISES, JAMSHEDPUR	CARBOMIG S6	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	15810	NOUVEAUX INDUSTRIES (P) LTD,KANGAYAM	NOUVARC	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13693	RASI ELECT.,CHENNAI	RASI CO2	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	14428	SHAKUNT ENTERPRISES PVT LTD,LUDHIANA.	SANWALKA Xtra Arc	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	16575	STANDARD WIRE PRODUCTS.	STAR	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	15085	VOLTARC ELECTRODE PVT. LTD.,TIRUPATHI	AUTOFIL - 6	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	14455	WIRE & WIRE PRODUCTS, CHENNAI	ESSARC	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	11288	JAGSHANN INDUSTRIES.NAGPUR	JAGM1	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	17842	PRECISION DRAWEL PVT. LTD., NAGPUR	PRECISION	STRUCTURAL	

	MIGW7	ER70S-6 CO2 WIRE	17841	PRASHANTH CYLINDERS PVT. LTD., BANGALORE.	PRAWELD	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	16548	WELD EXCEL INDIA LTD., LUDHIANA	EXCEL MAG1	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	17644	VARUN ELECTRODES PVT. LTD.,PANIPET	PRIMA MIG / MAG	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	18705	MARGARDSHAMMAR INDIA LTD, NEW DELHI.	GMM	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13690	GEE LIMITED,THANE	GM 70	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13211	D&H WELDING ELECTRODES (INDIA) LTD.	MIGARC WS - 6	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	10774	D&H SECHERON ELECTRODES PVT LTD.	AUTO THRME - 1	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	11528	RAAJARATNA ELECTRODES PVT. LTD,MEHSANA	RAAJMIG - 1(LAYER)	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	14575	WELD ALLOY PRODUCTS,NOIDA	M.W.A.70S	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	15101	PRECISION WELDARC LTD,KOLKATA	PWL MIG 2	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	11378	MAILAM INDIA LTD	MAILAM MIG 6	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13763	CLASSIC ELECTRODES (INDIA) LTD, KOLKATA	CLASSIC MIG 79S	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	17814	CALCUTTA ELETRODES PVT. LTD, RAIPUR	SHIVA CO2	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	10737	SRI DHARANI STEEL,THIRUTHANGAL.	X-LEND WIRE MIG	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	17813	K.M.CROWN WELDING CONSUMABLES PVT. LTD,DEWAS	CROWN MIG 6	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	10758	ALPHA ARC INDUSTRIES,GHAZIABAD	ALPHA MIG	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13487	MAGNARC ELECTRODES PVT. LTD,VISAGAPATNAM	MAGFIL	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13549	ATHARV WELDING TECHNOLOGIES (INDIA) PVT. LTD,SOLAPUR	ATHARV MIG WIRE	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13743	UNIQUE WELDING PRODUCTS PVT. LTD,ANAND	UNIWELD	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13911	ROYAL ARC ELECTRODES PVT. LTD	ROYAL 70S6	STRUCTURAL	
	MIGW7	ER70S-6 CO2 WIRE	13986	B&H ELECTRODES PVT. LTD,MOHALI	B&H MIG	STRUCTURAL	

13	P91FL	SAW FLUX ASME SFA 5.23	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	BOHLER BB 910		
	P91FL	SAW FLUX ASME SFA 5.23	20563	BOHLER THYSSEN SCHWEISSTECHNIK	MARATHON 543		
	P91FL	SAW FLUX ASME SFA 5.23	10081	ESAB INDIA LTD.,CHENNAI	OK 10.93		
	P91FL	SAW FLUX ASME SFA 5.23	21411	METRODE PRODUCTS, U.K.	LA 491		
	P91FL	SAW FLUX ASME SFA 5.23	20047	NIKKO BOEKI COMPANY,JAPAN			
	P91FL	SAW FLUX ASME SFA 5.23	21410	OERLIKON WELDING LTD., SWITZERLAND			
14	PIPFL	SAW FLUX WCPI 404	10081	ESAB INDIA LTD	ESAB BRD-1		
	PIPFL	SAW FLUX WCPI 404	11299	JHAVERI WELDFLUX LTD	FJB-1.2		
15	PPMFL	PPM FLUX WCPI - 409	12184	LAKSHMI CHEMICAL INDUSTRIES	LAK-40		
	PPMFL	PPM FLUX WCPI - 409	11701	SUPER WELD PRODUCTS	SWP-50		
16	SSOFL	SS OVERLAY FLUX WCPI 407	10785	ADOR WELDING LIMITED	AUTOMELT S-76		
	SSOFL	SS OVERLAY FLUX WCPI 407	10015	ANITA FLUXES ALLOY SPECIALITY	ST-410		
17	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	10785	ADOR WELDING LIMITED	AUTOMELT Gr. II	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	12184	LAKSHMI CHEMICALS INDS., TRICHY	LAXMI FLUX	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	13691	MANTEK WELDED FLUX CO	MANTEK - 22	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	14593	RMH CHEMICAL,TRICHY-15	RMH Autoweld Gr.I	STRUCTURAL	

	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	14309	S.CHEM&ALLIED PRODUCTS PRIVATE. LTD	SURE FLUX GP	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION		SUPER ELEC INDS, TRICHY	SUPER S41	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	11701	SUPERWELD PRODUCTS, PULIVALAM	SWP40T	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	19114	WELMET TECHNOLOGIES PVT. LTD,NAGPUR.	WELMET FLUX 81L -	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	15099	THERMIT ALLOYS LTD., SHIMOGA	CONWELD - RM	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	17381	NOUVEOFLUX CHEMICAL COMPANY	NOUVEOFLUX	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	13211	D&H WELDING ELECTRODES (INDIA) LTD.	SUPERMELT II	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	11712	TAPADIA ENGINEERS & TRADERS P.LTD.	TPD-50	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	15084	DWEKAM ELECTRODES LTD,INDORE	MERGEARC SFA-2	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	15085	VOLTARC ELECTRODE PVT. LTD.,TIRUPATHI	SUBARC-1 (EL-8)	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	19695	SUBMER FLUX TECHNOLOGIES,PULIVALAM	SHINE FLUX	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL	19735	RENUKA FLUXES COMPANY,SALEM	RENUKA	STRUCTURAL	

		APPLICATION					
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	14791	ANAND ARC LTD.,CHENNAI.	ANAND MELT - 1	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	10081	ESAB INDIA LTD	OK FLUX 10.81L	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	10466	SUN AUTO WELD INDUSTRIES, TRICHY	SUN FLUX	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	11288	JAGSHAAN INDUSTRIES . NAGPUR	JAG EZ WELD G 18L	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	13486	A V MINERALS PVT. LTD,,NAGPUR	AV EZEWELD 18L	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	13484	OSCAR AUTO FLUX,TRICHY	OSCAR AUTOWELD GRADE I	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	13534	RUPA INDUSTRIES,DHOLLA PALLI,A.P	RUPA MELT -1	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	13833	SUN FLUX,TANJORE	SUN BRAND SUPER FLUX	STRUCTURAL	
	STRFL	SAW FLUX FOR STRUCTURAL APPLICATION	15082	ROYAL WELD WIRE PVT. LTD,KANCHIPURAM DIST.	JACKSUN SFA GRADE - 1	STRUCTURAL	
18	TIGW1	ER70S -A1 GTAW ROD	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	BOHLER DMO-1G		
	TIGW1	ER70S -A1 GTAW ROD	20563	BOHLER THYSEN SCHWEISSTECHNIK	UNION I Mo		
	TIGW1	ER70S -A1 GTAW ROD	15083	MARUTHI ELECTRODES (P) LTD	MARUTHI TA1		
	TIGW1	ER70S -A1 GTAW	20047	NIKKO BOEKI COMPANY,JAPAN	TGS-M		

		ROD				
	TIGW1	ER70S -A1 GTAW ROD	10305	WELD WELL SPECIALITY PVT LTD	TGS-M	
	TIGW1	ER70S -A1 GTAW ROD	20067	UTP SCHWEISS MATERIAL GMBH & C	A642	
	TIGW1	ER70S -A1 GTAW ROD	10774	D&H SECHERON ELECTRODES PVT LTD.	F Cr Mo	
19	TIGW2	ER80SG 1.25CR 1/2MO GTAW ROD	21461	INDUSTRIA NAZIONALE ELETTRDI S.p.A.,ITALY	INETIG B2	
	TIGW2	ER80SG 1.25CR 1/2MO GTAW ROD	91033	MERIDIAN EXPORTS	INETIG B2	
	TIGW2	ER80SG 1.25CR 1/2MO GTAW ROD	21411	METRODE PRODUCTS, U.K.	METRODE ER80S-B2	
	TIGW2	ER80SG 1.25CR 1/2MO GTAW ROD	20047	NIKKO BOEKI KAISHA LTD	TGS-1CM	
	TIGW2	ER80SG 1.25CR 1/2MO GTAW ROD	10305	WELD WELL SPECIALITY PVT LTD	TGS-1CM	
	TIGW2	ER80SG 1.25CR 1/2MO GTAW ROD	10774	D&H SECHERON ELECTRODES PVT LTD.	F Cr Mo - 1	
	TIGW2	ER80SG 1.25CR 1/2MO GTAW ROD	15083	MARUTHI ELECTRODES (P) LTD, BANGALORE	MARUTHI TB2	
20	TIGW3	ER90SG-2 1/4CR 1MO GTAW ROD	20563	BOHLER THYSSSEN SCHWEISSSTECHNIK	UNION-I CRMO 910	
	TIGW3	ER90SG-2 1/4CR 1MO GTAW ROD	21461	INDUSTRIA NAZIONALE ELETTRDI S.p.A.,ITALY	INETIG B3	
	TIGW3	ER90SG-2 1/4CR 1MO GTAW ROD	21411	METRODE PRODUCTS, U.K.	METRODE ER90S-B3	
	TIGW3	ER90SG-2 1/4CR 1MO GTAW ROD	20047	NIKKO BOEKI KAISHA LTD	TGS-2CM	
	TIGW3	ER90SG-2 1/4CR 1MO GTAW ROD	10305	WELD WELL SPECIALITY PVT LTD	TGS-2CM	
	TIGW3	ER90SG-2 1/4CR 1MO GTAW ROD	15083	MARUTHI ELECTRODES (P) LTD, BANGALORE	MARUTHI TB3	
21	TIGW4	ER347 GTAW ROD	20563	BOHLER THYSSSEN SCHWEISSSTECHNIK	THERMANIT- H347	
	TIGW4	ER347 GTAW ROD	20390	METRODE PRODUCTS LIMITED	347S96 TIG	
	TIGW4	ER347 GTAW ROD	20047	NIKKO BOEKI COMPANY, JAPAN	TGS-347	

	TIGW4	ER347 GTAW ROD	10305	WELD WELL SPECIALITY PVT LTD	TGS-347		
	TIGW4	ER347 GTAW ROD	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP A 68		
22	TIGW5	ERNICR3 GTAW ROD	20563	BOHLER THYSSEN SCHWEISSTECHNIK	THERMANIT NICRO 82		
	TIGW5	ERNICR3 GTAW ROD	15083	MARUTHI ELECTRODES (P) LTD	ERNICR3		
	TIGW5	ERNICR3 GTAW ROD	20047	NIKKO BOEKI COMPANY, JAPAN	TGS-70NCb		
	TIGW5	ERNICR3 GTAW ROD	10305	WELD WELL SPECIALITY PVT LTD	TGS-70NCb		
	TIGW5	ERNICR3 GTAW ROD	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP A 068 HH		
23	TIGW6	TUNGSTEN ELECTRODE-2% THORIATED	20429	PLANSEE AKTIENGESELLSCHAFT			
24	TIGW7	TIG ER90S-B9	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	BOHLER C9 MV-1G		
	TIGW7	TIG ER90S-B9	20563	BOHLER THYSSEN SCHWEISSTECHNIK	THERMANIT MTS-3		
	TIGW7	TIG ER90S-B9	21411	METRODE PRODUCTS, U.K.	9CrMoV-N TIG		
	TIGW7	TIG ER90S-B9	20047	NIKKO BOEKI COMPANY, JAPAN	TGS-90 B9		
	TIGW7	TIG ER90S-B9	21410	OERLIKON WELDING LTD., SWITZERLAND			
25	WCA08	E7018-A1	10774	D&H SECHERON ELECTRODES PVT LTD.	MOLYTHERME	PRESURE PARTS	PERMANENT
	WCA08	E7018-A1	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	ULTIMATE 18A1	STRUCTURAL	TRIAL
	WCA08	E7018-A1	11420	MODI ARC ELECTRODES CO.	MODI 7018A1	PRESURE PARTS	PERMANENT
	WCA08	E7018-A1	13906	MARUTI WELD LIMITED. NEW DELHI	ULTRA 7018 -A1	STRUCTURAL	TRIAL
	WCA08	E7018-A1	10785	ADOR WELDING LTD.	MOLYTEN	STRUCTURAL	TRIAL
	WCA08	E7018-A1	10081	ESAB INDIA LTD.	OK 74.46	STRUCTURAL	TRIAL
	WCA08	E7018-A1	13690	GEE LTD., THANE	GRIDUCT-2	PRESURE PARTS	TRIAL
	WCA08	E7018-A1	18705	MORGARDSHAMMAR INDIA LTD	GM 18-A1	PRESURE PARTS	TRIAL
	WCA08	E7018-A1	15090	RAJ KESARI ELECTRODES PRIVATE LTD	RAJWELD-18A1	PRESURE PARTS	TRIAL

26	WCA09	E8013-B2	10774	D&H SECHERON ELECTRODES PVT LTD.	MEDIO-CrMo		
27	WCA10	E8018-B2	10785	ADOR WELDING LIMITED	CROMOTEN	STRUCTURAL	TRIAL
	WCA10	E8018-B2	10774	D&H SECHERON ELECTRODES PVT LTD.	CROMOTHERME -1	PRESURE PARTS	PERMANENT
	WCA10	E8018-B2	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	ULTIMATE - 80 B2	PRESURE PARTS	PERMANENT
	WCA10	E8018-B2	11378	MAILAM INDIA LTD	MAILARC – 1CR	PRESURE PARTS	PERMANENT
	WCA10	E8018-B2	11420	MODI ARC ELECTRODES CO.	MODI 8018B2	PRESURE PARTS	PERMANENT
	WCA10	E8018-B2	13906	MARUTI WELD LIMITED. NEW DELHI	ULTRA - CR-1	STRUCTURAL	TRIAL
	WCA10	E8018-B2	14040	MANTEK ELECTRODS PRIVATE LTD	MANTEK CROMO 1	PRESURE PARTS	TRIAL
	WCA10	E8018-B2	18432	VIJEY ELECTRODES AND WIRES PVT., LTD, CHENNAI	VJ-8018-B2	PRESURE PARTS	TRIAL
	WCA10	E8018-B2	18705	MORGARDSHAMMAR INDIA LTD	GM 80-B2	PRESURE PARTS	TRIAL
	WCA10	E8018-B2	15090	GEE LTD.,THANE	GRIDUCT3	PRESURE PARTS	TRIAL
28	WCA11	E9013-B3	10774	D&H SECHERON ELECTRODES PVT LTD.	MEDIO-2CrMo		
29	WCA12	E9018-B3	10785	ADOR WELDING LIMITED	CROMOTEN-C	STRUCTURAL	TRIAL
	WCA12	E9018-B3	10774	D&H SECHERON ELECTRODES PVT LTD.	CROMOTHERME -2	PRESURE PARTS	PERMANENT
	WCA12	E9018-B3	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	ULTIMATE - 90 B3	PRESURE PARTS	PERMANENT
	WCA12	E9018-B3	11420	MODI ARC ELECTRODES CO.	MODI 9018B3	PRESURE PARTS	PERMANENT
	WCA12	E9018-B3	13906	MARUTI WELD LIMITED. NEW DELHI	ULTRA - CR-2	STRUCTURAL	TRIAL
	WCA12	E9018-B3	11378	MAILAM INDIA LTD	MAILARC-2Cr	PRESURE PARTS	TRIAL
	WCA12	E9018-B3	14040	MANTEK ELECTRODS PRIVATE LTD	MANTEK CROMO 2	STRUCTURAL	TRIAL
	WCA12	E9018-B3	13690	GEE LIMITED , THANE	GRIDUCT-4	PRESURE PARTS	TRIAL
	WCA12	E9018-B3	15090	RAJ KESARI ELECTRODES PRIVATE LTD	RAJWELD-9018B3	PRESURE PARTS	TRIAL
	WCA12	E9018-B3	18705	MORGARDSHAMMER INDIA LTD,NEW DELHI	GM-90B3	PRESURE PARTS	TRIAL
	WCA12	E9018-B3	18432	VIJEY ELECTRODES AND WIRES PVT., LTD, CHENNAI	GM 90B3	PRESURE PARTS	TRIAL
	WCA12	E9018-B3	13211	D&H WELDING ELECTRODES (INDIA) LTD.	SUPER - CR - 2	PRESURE PARTS	TRIAL
	WCA12	E9018-B3	14040	MANTEK ELECTRODES PRIVATE LTD.		PRESURE PARTS	TRIAL

30	WCA14	E11018M	10774	D&H SECHERON ELECTRODES PVT LTD.	ULTRATENSAL-MH		
	WCA14	E11018M	10081	ESAB INDIA LTD	ESAB 118		
31	WCA15	E9018-B9	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	FOX C 9 MVS		
	WCA15	E9018-B9	10148	MERDIAN EXPORTS	FOX C 9 MVS		
32	WCA17	E8018-B6	10774	D&H SECHERON ELECTRODES PVT LTD.	CROMOTHERME -5		
33	WCA18	E8016C2	10774	D&H SECHERON ELECTRODES PVT LTD.	NITHEREME-3.5		
34	WCA19	E7016C2	10774	D&H SECHERON ELECTRODES PVT LTD.			
35	WCA20	E8018-B2(IMPACT @-18 DEG C)	10774	D&H SECHERON ELECTRODES PVT LTD.	CROMOTHERME -1(MOD)		
36	WCA21	E8018-D3	10774	D&H SECHERON ELECTRODES PVT LTD.	MOLYTHERME (EXTRA)		
37	WCA22	E8018-B8	10774	D&H SECHERON ELECTRODES PVT LTD.	CROMOTHERME -9		
38	WCA23	SMAW ELECTRODE E9015 - B9	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	FOX C9MV		
	WCA23	SMAW ELECTRODE E9015 - B9	20563	BOHLER THYSSEN SCHWEISSTECHNIK	THERMANIT MTS-3		
	WCA23	SMAW ELECTRODE E9015 - B9	20630	KOBE STEELS LIMITED			
	WCA23	SMAW ELECTRODE E9015 - B9	20047	NIKKO BOEKI COMPANY,JAPAN			
	WCA23	SMAW ELECTRODE E9015 - B9	21411	METRODE PRODUCTS, U.K.	CHROMET 9MV-N		
	WCA23	SMAW ELECTRODE	21410	OERLIKON WELDING LTD., SWITZERLAND	CHROMOCORD 9M		

		E9015 - B9					
39	WCC01	E6013	10785	ADOR WELDING LIMITED	METALBOND	STRUCTURAL	PERMANENT
	WCC01	E6013	14429	ALPHA FLUX AND ELECTRODES, THURAIYUR.	WELDER-G	STRUCTURAL	PERMANENT
	WCC01	E6013	13763	CLASSIC ELECTRODES (I) PVT LTD. KOLKATTA	CLASSIC 6013 PLUS	STRUCTURAL	PERMANENT
	WCC01	E6013	10774	D&H SECHERON ELECTRODES PVT LTD.	NORMA	STRUCTURAL	PERMANENT
	WCC01	E6013	13211	D&H WELDING ELECTRODES (INDIA) LTD.	STANDARD	STRUCTURAL	PERMANENT
	WCC01	E6013	15084	DWEKAM ELECTRODES PVT. LTD., INDORE	DK 13	STRUCTURAL	TRIAL
	WCC01	E6013	10081	ESAB INDIA LTD	ESAB FERROSPEED PLUS	STRUCTURAL	PERMANENT
	WCC01	E6013	11881	FUSION ENGG. PRODUCT LTD.	ELECTRA-6	STRUCTURAL	PERMANENT
	WCC01	E6013	13690	GEE LTD., THANE	GEECON PINK	STRUCTURAL	PERMANENT
	WCC01	E6013	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	REGULAR-S	STRUCTURAL	PERMANENT
	WCC01	E6013	11378	MAILAM INDIA LTD	MAILARC – 13R	STRUCTURAL	PERMANENT
	WCC01	E6013	11380	MALU ELECTRODES PVT.LIMITED	MANGALAM E 6013	STRUCTURAL	PERMANENT
	WCC01	E6013	14040	MANTEK ELECTRODES PRIVATE LTD.	MANTEK GP-13	STRUCTURAL	PERMANENT
	WCC01	E6013	15083	MARUTHI ELECTRODES (P) LTD	MARUTHI 6013 X	STRUCTURAL	PERMANENT
	WCC01	E6013	13906	MARUTI WELD LIMITED. NEW DELHI	MARUTI 44	STRUCTURAL	PERMANENT
	WCC01	E6013	11420	MODI ARC ELECTRODES CO.	STEELON STD	STRUCTURAL	PERMANENT
	WCC01	E6013	15088	NIVETHA ELECTRODES. TIRUCHY-7	MADAL ARC	STRUCTURAL	PERMANENT
	WCC01	E6013	13693	RASI ELECT., CHENNAI	RASI E6013	STRUCTURAL	PERMANENT
	WCC01	E6013	13911	ROYAL ARC ELECTRODES PVT. LTD	ROYAL S	STRUCTURAL	PERMANENT
	WCC01	E6013	15086	SRI RENG A ELECTRODES (P) LTD	SUNSHINE E-6013	STRUCTURAL	PERMANENT
	WCC01	E6013	15080	SUNCRAFT ELECTRODES PVT LTD. TRICHY	SUNCRAFT E 6013	STRUCTURAL	PERMANENT
	WCC01	E6013	15081	ANNAI SIVAKAMI AMMAL INDUSTRIES,	SUNLINE-27	STRUCTURAL	PERMANENT
	WCC01	E6013	15087	V.N.C. ELECTRODES . KARUR	BEST ARC MS11	STRUCTURAL	PERMANENT
	WCC01	E6013	15085	VOLTARC ELECTRODE, TIRUPATHI	SPEED ARC	STRUCTURAL	PERMANENT
	WCC01	E6013	15082	ROYAL WELD WIRE PVT. LTD, KANCHIPURAM DIST.	JACKSUN 5	STRUCTURAL	PERMANENT
	WCC01	E6013	14575	WELD ALLOY PRODUCTS, UP	WA - 6013 - S	STRUCTURAL	PERMANENT
	WCC01	E6013	17451	WELDWELL ELECTRODES, NAGPUR	WELDFAST	STRUCTURAL	PERMANENT

					SUPER		
	WCC01	E6013	16548	WELD EXCEL INDIA LTD	EXCEL - 13S.	STRUCTURAL	TRIAL
	WCC01	E6013	15090	RAJ KESARI ELECTRODES PRIVATE LTD	RAJCORD - 13S	STRUCTURAL	PERMANENT
	WCC01	E6013	15102	SOLARC WELD RODS	VATSARC 19 PLUS	STRUCTURAL	PERMANENT
	WCC01	E6013	17664	ELMARK ELECTRODES PVT. LTD.,CHENNAI	ELMARK 11	STRUCTURAL	PERMANENT
	WCC01	E6013	17643	SUNDEEP ELECTRODES PVT. LTD.,HAPUR	SUNDEEP 13S	STRUCTURAL	PERMANENT
	WCC01	E6013	17661	ALPHA WELDING & ALLIED PRODUCTS PVT. LTD., BANGALORE	LG	STRUCTURAL	PERMANENT
	WCC01	E6013	17644	VARUN ELECTRODES PVT. LTD.,PANIPET	PRIMA 6013-S	STRUCTURAL	PERMANENT
	WCC01	E6013	17801	JAIN ELECTRODES,KOTA	SUN WELD	STRUCTURAL	PERMANENT
	WCC01	E6013	17802	SRI VARSHA ELECTRODES,KAKKALUR.	BLAZE ARC	STRUCTURAL	PERMANENT
	WCC01	E6013	17812	VICTOR ELECTRODES LIMITED,NEW DELHI	VICTOR 6013 PLUS	STRUCTURAL	PERMANENT
	WCC01	E6013	17813	K.M.CROWN WELDING CONSUMABLES PVT. LTD., DEWAS	CROWN 13S	STRUCTURAL	TRIAL
	WCC01	E6013	17815	CALCUTTA ELECTRODES PVT. LTD., RAIPUR.	SIVA - S	STRUCTURAL	PERMANENT
	WCC01	E6013	17820	SETH ELECTRODES PVT. LTD., KHURAI (M.P)	KAYNOZ 7S	STRUCTURAL	PERMANENT
	WCC01	E6013	18433	NUCOR WELD (INDIA) PVT., LTD, BANGALORE	EKNOWELD	STRUCTURAL	PERMANENT
	WCC01	E6013	18540	KOLLIPARA ELECTRODES PVT., LTD, PENEMALURU,A.P.	KELARC 6013.	STRUCTURAL	PERMANENT
	WCC01	E6013	19111	SPECTRA SUPER ALLOYS LTD,JAMSHEDPUR	SUDO 6013.	STRUCTURAL	PERMANENT
	WCC01	E6013	18597	SHIELDARC EQUIPMENTS PVT. LTD,KOLKATA	ESL' ARC -62	STRUCTURAL	PERMANENT
	WCC01	E6013	15089	WELDCRAFT PRIVATE LIMITED,BANGALORE	MAXIMA 6013X	STRUCTURAL	PERMANENT
	WCC01	E6013	18300	SUPERON SCHWEISSTECHNIK INDIA LTD,HARYANA.	OVERCORD S	STRUCTURAL	PERMANENT
	WCC01	E6013	18705	MORGARDSHAMMER INDIA LTD,NEW DELHI	GM 20	STRUCTURAL	PERMANENT
	WCC01	E6013	18846	COSMOS ELECTRODES PVT., LTD. INDORE	ATLAS - 13	STRUCTURAL	PERMANENT

	WCC01	E6013	19305	MURLI ELECTRODE PVT. LTD, NAGPUR.	WONDER WELD	STRUCTURAL	TRIAL
	WCC01	E6013	15833	THIRUMALA ELECTRODES Co., TRICHY.	SEVEN ARCS 6013	STRUCTURAL	PERMANENT
	WCC01	E6013	11528	RAAJARATNA ELECTRODES PVT. LTD,MEHSANA	RATNA 6013X	STRUCTURAL	TRIAL
	WCC01	E6013	19751	FINE WELD ELECTRODESS INDIA (P) LTD,COIMBATORE	MECA E6013	STRUCTURAL	PERMANENT
	WCC01	E6013	19745	MEGA WELD TECHNOLOGIES,COIMBATORE	MEGA E6013	STRUCTURAL	PERMANENT
	WCC01	E6013	19875	ABIRAMI ELECTRODES,	SUNWELD	STRUCTURAL	PERMANENT
	WCC01	E6013	19906	BAGHERWAL ELECTRODES PVT. LTD,INDORE	MONARC-S	STRUCTURAL	PERMANENT
	WCC01	E6013	10758	ALPHA ARC INDUSTRIES,GHAZIABAD	ALPHA 6013	STRUCTURAL	PERMANENT
	WCC01	E6013	13538	WELDCOM ELECTRODES PVT. LTD, SURAT	NOVAX - 13	STRUCTURAL	PERMANENT
	WCC01	E6013	13663	ORION WIRE MANUFACTURING CO,BHARUCH	SUN ARC X-19	STRUCTURAL	PERMANENT
	WCC01	E6013	13729	ORANGE ELECTRODES INDUSTRIES,ASANGAON	GALA WELD	STRUCTURAL	PERMANENT
	WCC01	E6013	10667	EUREKA SYSTEMS AND ELECTRODES P. LTD,COIMBATORE	NUMBER ONE	STRUCTURAL	PERMANENT
	WCC01	E6013	13487	MAGNARC ELECTRODES PVT. LTD, VISAGAPATNAM	MAGNAARCH 63	STRUCTURAL	PERMANENT
	WCC01	E6013	13549	ATHARVE WELDING TECHNOLOGIES PVT. LTD,SOLAPUR	AWT E6013	STRUCTURAL	PERMANENT
40	WCC02						
41	WCC03						
42	WCC04	E7016	10774	D&H SECHERON ELECTRODES PVT LTD.	INDOTHERME		
	WCC04	E7016	10081	ESAB INDIA LTD	ESAB-56		
43	WCC05	E7018	10785	ADOR WELDING LIMITED	SUPABASE 7018	STRUCTURAL	TRIAL
	WCC05	E7018	14791	ANAND ARC LTD.,CHENNAI.	ANAND THERME	PRESURE PARTS	PERMANENT
	WCC05	E7018	10774	D&H SECHERON ELECTRODES PVT LTD.	SUPRATHERME	PRESURE PARTS	PERMANENT
	WCC05	E7018	13211	D&H WELDING ELECTRODES(I) LTD,INDORE	Super-LH	PRESURE PARTS	PERMANENT
	WCC05	E7018	15084	DWEKAM,CHENNAI	DK-18	PRESURE PARTS	PERMANENT

	WCC05	E7018	10081	ESAB INDIA LTD	ESAB-36H	PRESURE PARTS	PERMANENT
	WCC05	E7018	13690	GEE LIMITED , THANE	GRICON GREEN	PRESURE PARTS	PERMANENT
	WCC05	E7018	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	ULTIMATE-18	PRESURE PARTS	PERMANENT
	WCC05	E7018	15091	MAGNA ENGG PROD. P LTD,VIJAYAWADA	MAGNA-8	STRUCTURAL	TRIAL
	WCC05	E7018	11378	MAILAM INDIA, PONDICHERRY	MAIL ARC-18	PRESURE PARTS	PERMANENT
	WCC05	E7018	14040	MANTEK ELECTRODS PVT. LTD., TRICHY	MANTEK LH - 18.	PRESURE PARTS	PERMANENT
	WCC05	E7018	15083	MARUTHI ELECTRODES (P) LTD	MARUTHI - 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	13906	MARUTI WELD LIMITED,DELHI	ULTRA -7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	11420	MODI ARC ELECTRODES CO.	MODI-7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	15090	RAJ KESARI ELECTRODES PRIVATE LTD	SUPERLET - 18	PRESURE PARTS	PERMANENT
	WCC05	E7018	13693	RASI ELECT.,CHENNAI	RASI E7018 LH	PRESURE PARTS	PERMANENT
	WCC05	E7018	13911	ROYAL ARC ELECTRODES PVT LTD., THANE	ROYAL THERME	PRESURE PARTS	PERMANENT
	WCC05	E7018	15082	ROYAL WELD WIRE PVT. LTD,KANCHIPURAM DIST.	JACKSUN 18H	PRESURE PARTS	PERMANENT
	WCC05	E7018	15102	SOLARC WELD RODS	SUPRADYNE	STRUCTURAL	PERMANENT
	WCC05	E7018	15833	THIRUMALA ELECTRODES Co., TRICHY.	SEVEN ARCS 18	PRESURE PARTS	PERMANENT
	WCC05	E7018	15085	VOLTARC ELECTRODE,TIRUPATHI	SUPERARC	PRESURE PARTS	PERMANENT
	WCC05	E7018	14575	WELD ALLOY PRODUCTS,UP	WA 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	17451	WELDWELL ELECTRODES,NAGPUR	WELDFAST LH- 18	PRESURE PARTS	PERMANENT
	WCC05	E7018	16548	WELD EXCEL INDIA LTD	EXCEL - 18.	PRESURE PARTS	PERMANENT
	WCC05	E7018	15089	WELDCRAFT PRIVATE LIMITED,BANGALORE	MAXIDURE-7018	STRUCTURAL	PERMANENT
	WCC05	E7018	14429	ALPHA FLUX AND ELECTRODES,THURAIYUR.	SUPER WELD 7018	STRUCTURAL	PERMANENT
	WCC05	E7018	11881	FUSION ENGG. PRODUCT LTD.	BASICOTE - 6	PRESURE PARTS	PERMANENT
	WCC05	E7018	15087	V.N.C. ELECTRODES . KARUR	BESTARC LH -18	STRUCTURAL	TRIAL
	WCC05	E7018	17644	VARUN ELECTRODES PVT. LTD.,PANIPET	PRIMA 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	15086	SRI RENGA ELECTRODES (P) LTD	SUNSHINE - 18	STRUCTURAL	PERMANENT
	WCC05	E7018	18432	VIJEY ELECTRODES AND WIRES PVT., LTD, CHENNAI	VJ - 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	17643	SUNDEEP ELECTRODES PVT. LTD.,HAPUR	SUNDEEP 7018	PRESURE PARTS	PERMANENT

	WCC05	E7018	17813	K.M.CROWN WELDING CONSUMABLES PVT. LTD., DEWAS	CROWN 18	PRESURE PARTS	PERMANENT
	WCC05	E7018	18300	SUPERON SCHWEISSTECHNIK INDIA LTD,HARYANA.	SUPERCITO	PRESURE PARTS	PERMANENT
	WCC05	E7018	19111	SPECTRA SUPER ALLOYS LTD,JAMSHEDPUR	SUDO 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	18540	KOLLIPARA ELECTRODES PVT., LTD, PENEMALURU,A.P.	KELARC 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	18705	MARGARDSHAMMER INDIA LTD,NEW DELHI	GM 18	PRESURE PARTS	PERMANENT
	WCC05	E7018	11380	MALU ELECTRODES PVT.LIMITED	MANGALAM E 7018	STRUCTURAL	TRIAL
	WCC05	E7018	18846	COSMOS ELECTRODES PVT., LTD. INDORE	SUPRAMAX 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	11528	RAAJARATNA ELECTRODES PVT. LTD,MEHSANA	RATNA 7018	STRUCTURAL	PERMANENT
	WCC05	E7018	18433	NUCOR WELD (INDIA) PVT., LTD, BANGALORE	EKNOWELD 7018	PRESURE PARTS	PERMANENT
	WCC05	E7018	17815	CALCUTTA ELECTRODES PVT. LTD., RAIPUR.	SHIVATHERME- 18	STRUCTURAL	PERMANENT
	WCC05	E7018	10667	EUREKA SYSTEMS AND ELECTRODES P. LTD,COIMBATORE	EUTHERME LH	STRUCTURAL	PERMANENT
	WCC05	E7018	13763	CLASSIC ELECTRODES (INDIA) LTD,KOLKATA	CLASSIC LH - 7018	STRUCTURAL	PERMANENT
	WCC05	E7018	13388	THE INDIAN STEEL & WIRE PRODUCTS LTD, JAMSHEDPUR	ISWP SPARK 7018	STRUCTURAL	PERMANENT
	WCC05	E7018	10758	ALPHA ARC INDUSTRIES,GHAZIABAD	ALPHA 7018	STRUCTURAL	PERMANENT
	WCC05	E7018	19906	BAGHERWAL ELECTRODES PVT. LTD,INDORE	MONOTHERME	STRUCTURAL	PERMANENT
	WCC05	E7018	12893	RUKHMANI ELECTRODES PVT. LTD,KOLKATA	REPL 7018	STRUCTURAL	PERMANENT
	WCC05	E7018	13487	MAGNARC ELECTRODES PVT. LTD, VISAGAPATNAM	MAGNAARCH LH	STRUCTURAL	PERMANENT
	WCC05	E7018	19305	MURLI ELECTRODE PVT.LTD, NAGPUR.	SUPERIAL LH E7018	STRUCTURAL	PERMANENT
44	WCC06	E7018-1	10785	ADOR WELDING LIMITED	TENALLOY	STRUCTURAL	TRIAL
	WCC06	E7018-1	10774	D&H SECHERON ELECTRODES PVT LTD.	SUPRATHERME (SPL)	PRESURE PARTS	PERMANENT
	WCC06	E7018-1	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	ULTIMATE-18 SPL	PRESURE PARTS	PERMANENT

	WCC06	E7018-1	18432	VIJEY ELECTRODES AND WIRES PVT., LTD, CHENNAI	VJ - E 7018 - 1	STRUCTURAL	TRIAL
	WCC06	E7018-1	11378	MAILAM INDIA LIMITED,	MAILARC - 18 PLUS	STRUCTURAL	TRIAL
	WCC06	E7018-1	11420	MODI ARC ELECTRODES CO.	MODI 7018 SPL.	STRUCTURAL	TRIAL
	WCC06	E7018-1	13690	GEE LIMITED , THANE	GREECON GREEN SPL.	STRUCTURAL	TRIAL
	WCC06	E7018-1	10081	ESAB INDIA LTD	ESAB 36 (SPL)	STRUCTURAL	TRIAL
	WCC06	E7018-1	13211	D&H WELDING ELECTRODES(I) LTD,INDORE	SUPER - LH - (SPL)	PRESURE PARTS	TRIAL
45	WCC07	E7024	10036	BHARAT HEAVY ELECTRICALS LTD	BHEL 7024		
46	WCC08	E7018-1(SOUR&HIC)	10785	ADOR WELDING LIMITED	TENALLOY	STRUCTURAL	
	WCC08	E7018-1(SOUR&HIC)	10774	D&H SECHERON ELECTRODES PVT LTD.	SUPRATHERME (SPL)	STRUCTURAL	
	WCC08	E7018-1(SOUR&HIC)	11227	HONAVAR ELECTRODES LTD	ULTIMATE-18SPL NC	STRUCTURAL	
47	WCF01	E71T-1	10785	ADOR WELDING LIMITED	AUTOMIG-FC120	STRUCTURAL	
	WCF01	E71T-1	14791	ANAND ARC LTD.,CHENNAI.	ANANDCORD-71	STRUCTURAL	
	WCF01	E71T-1	91205	BAJAJ INDUSTRIAL CORPORATION	TWE-711	STRUCTURAL	
	WCF01	E71T-1	10081	ESAB INDIA LTD	7100S	STRUCTURAL	
	WCF01	E71T-1	21065	HYUNDAI WELDING CO. LTD.,	SUPERCORED 71H	STRUCTURAL	
	WCF01	E71T-1	20033	KISWEL LTD		STRUCTURAL	
	WCF01	E71T-1	11378	MAILAM INDIA LTD	MGA-12	STRUCTURAL	
	WCF01	E71T-1	20047	NIKKO BOEKI KAISHA LTD	DW-100	STRUCTURAL	
	WCF01	E71T-1	10305	WELD WELL SPECIALITY PVT LTD	DW-100	STRUCTURAL	
	WCF01	E71T-1	11459	NIVEK AGENCIES	DW-100	STRUCTURAL	
	WCF01	E71T-1	14656	PADMA BALAJI ASSOCIATES,	LW71		
	WCF01	E71T-1	20970	THE SHANGHAI LINCOLN	LW71	STRUCTURAL	
	WCF01	E71T-1	14557	TIEN TAI ELECTRODES CO., LTD	TWE-711	STRUCTURAL	
	WCF01	E71T-1	15084	DWEKAM ELECTRODES PVT. LTD., INDORE	COREFIL - 12R	STRUCTURAL	
	WCF01	E71T-1	13911	ROYAL ARC ELECTRODES PVT. LTD	ROYAL FIL GS 12R	STRUCTURAL	
48	WCF02	E309T0-1	20563	BOHLER THYSSSEN SCHWEISSTECHNIK	THERMIT TG 309 L		
	WCF02	E309T0-1	20047	NIKKO BOEKI COMPANY,JAPAN	DW-309		

	WCF02	E309T0-1	10305	WELD WELL SPECIALITY PVT LTD	DW-309		
49	WCF03	E309LMOT0-1	20563	BOHLER THYSSEN SCHWEISSTECHNIK	THERMIT TG 309 Mo L		
	WCF03	E309LMOT0-1	20033	KISWEL LTD.,	K-309MOL T		
	WCF03	E309LMOT0-1	20047	NIKKO BOEKI KAISHA LTD	DW-309MOL		
	WCF03	E309LMOT0-1	10306	WELDWELL SPECIALITY PVT LTD	DW-309MOL		
50	WCF04	E81T1 - B2	20033	KISWEL LTD.,	K-81TB2		
	WCF04	E81T1 - B2	11378	MAILAM INDIA LTD	MGA-16		
	WCF04	E81T1 - B2	20047	NIKKO BOEKI COMPANY,JAPAN	DW-81B2		
	WCF04	E81T1 - B2	10305	WELD WELL SPECIALITY PVT LTD	K-81TB2		
51	WCF05	E91T1-B3	20033	KISWEL LTD.,	K-91TB3		
	WCF05	E91T1-B3	20630	KOBE STEELS LIMITED	DW-91B3		
	WCF05	E91T1-B3	20047	NIKKO BOEKI COMPANY,JAPAN	DW-91B3		
52	WCF06	E316LT1-1	20033	KISWEL LTD.,	K-316LT		
	WCF06	E316LT1-1	20047	NIKKO BOEKI COMPANY,JAPAN	DW-316		
	WCF06	E316LT1-1	10305	WELD WELL SPECIALITY PVT LTD	DW-316		
53	WCF07	E308LT0-1	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	EAS-2FD		
	WCF07	E308LT0-1	10148	MERDIAN EXPORTS	EAS-2FD		
54	WCF08	E80 T1-A1	20011	BOHLER SCHWEISSTECHNIK AUSTRIA			
	WCF08	E80 T1-A1	20047	NIKKO BOEKI KAISHA LTD			
55	WCF09	E 71T - 1 BULK PACK	91205	BAJAJ INDUSTRIAL CORPORATION	TWE-711		
	WCF09	E 71T - 1 BULK PACK	10081	ESAB INDIA LTD	OK TUBROD 15.14A		
	WCF09	E 71T - 1 BULK PACK	21065	HYUNDAI WELDING CO. LTD.,	SUPER CORED 71H		
	WCF09	E 71T - 1 BULK PACK	20033	KISWEL LTD.,			
	WCF09	E 71T - 1 BULK PACK	11378	MAILAM INDIA LTD	MGA 12		
	WCF09	E 71T - 1 BULK PACK	20047	NIKKO BOEKI KAISHA LTD	DW-100		
	WCF09	E 71T - 1 BULK	10306	WELDWELL SPECIALITY PVT LTD	DW-100		

		PACK				
	WCF09	E 71T - 1 BULK PACK	14656	PADMA BALAJI ASSOCIATES,	LW71	
	WCF09	E 71T - 1 BULK PACK	20970	THE SHANGHAI LINCOLN	LW71	
	WCF09	E 71T - 1 BULK PACK	14557	TIEN TAI ELECTRODES CO., LTD	TWE-711	
56	WCH01	WCPI HF ELECTRODE	10774	D&H SECHERON ELECTRODES PVT LTD.	BOR-B	
	WCH01	WCPI HF ELECTRODE	10081	ESAB INDIA LTD	ESAB DOROID- 350	
57	WCH02	WCPI HF ELECTRODE	10081	ESAB INDIA LTD	ESAB COBALARC -1M	
58	WCH03	ECOCRA	20130	ALCONIX CORPORATION	BISHILITE-6	
	WCH03	ECOCRA	20018	DELORO STELLITE LIMITED	STELLITE-6	
	WCH03	ECOCRA	20050	NISSHO IWAI CORPORATION	BISHILITE-6	
	WCH03	ECOCRA	10172	NISSHO IWAI CORPORATION		
	WCH03	ECOCRA	10780	P&S INTERNATIONAL	BISHILITE-6	
	WCH03	ECOCRA	10303	VIRGO CONSULTANTS PVT LTD	STELLITE-6	
59	WCH04	ER.C A9	11865	DIFFUSION ENGINEERS LTD		
	WCH04	ER.C A9	13241	ITW WELDING PRODUCTS GROUP		
	WCH04	ER.C A9	20067	UTP SCHWEISS MATERIAL GMBH & C		
60	WCL02	ENICI	10774	D&H SECHERON ELECTRODES PVT LTD.	NFM	
	WCL02	ENICI	11420	MODI ARC ELECTRODES CO.	CASTRON KALT	
61	WCL03	ENIFECI	10081	ESAB INDIA LTD	ESAB 802KG	
62	WCL04	ENI - 1	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-1280	
	WCL04	ENI - 1	10081	ESAB INDIA LTD		
	WCL04	ENI - 1	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP-80Ni	
63	WCL05	ENICU-7	10774	D&H SECHERON ELECTRODES PVT	D&H-1250	

				LTD.			
	WCL05	ENICU-7	10081	ESAB INDIA LTD	ESAB MONEL		
	WCL05	ENICU-7	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP 80M		
64	WCL06	ENICRFE2	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-1200T		
	WCL06	ENICRFE2	10081	ESAB INDIA LTD	ESAB CN1G		
	WCL06	ENICRFE2	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP 7015 Mo		
65	WCL07	ENICRFE3	20563	BOHLER THYSSEN SCHWEISSSTECHNIK	THERMANITNCR O 182		
	WCL07	ENICRFE3	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-1212		
	WCL07	ENICRFE3	20472	SPECIAL METALS WELDING PRODUCTS COM	INCONEL 182		
	WCL07	ENICRFE3	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP 068HH		
66	WCS20	E308-16	10785	ADOR WELDING LIMITED	SUPERINOX-1A		
	WCS20	E308-16	10774	D&H SECHERON ELECTRODES PVT LTD.	RUTOX-A		
	WCS20	E308-16	10081	ESAB INDIA LTD	OK 61.50		
	WCS20	E308-16	11378	MAILAM INDIA LTD	MAILEX-A		
	WCS20	E308-16	11420	MODI ARC ELECTRODES CO.	SS-308		
67	WCS21	E308L-16	10785	ADOR WELDING LIMITED	SUPERINOX-1C		
	WCS21	E308L-16	10774	D&H SECHERON ELECTRODES PVT LTD.	RUTOX-B		
	WCS21	E308L-16	10081	ESAB INDIA LTD	OK 61.30		
68	WCS22	E309-16	10774	D&H SECHERON ELECTRODES PVT LTD.	CRONITHERME-25/12	PRESURE PARTS	
	WCS22	E309-16	10081	ESAB INDIA LTD	OK.67.67	PRESURE PARTS	
	WCS22	E309-16	11420	MODI ARC ELECTRODES CO.	SS-309	STRUCTURAL	
	WCS22	E309-16	13906	MARUTI WELD LIMITED, DELHI	SUPERALLOY 2D	STRUCTURAL	
	WCS22	E309-16	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	SILVERSHINE-309	STRUCTURAL	
	WCS22	E309-16	10785	ADOR WELDING LIMITED	BETANOX-D	STRUCTURAL	

69	WCS23	E309L-16	10036	BHARAT HEAVY ELECTRICALS LTD	BHEL 309L		
	WCS23	E309L-16	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-309L		
	WCS23	E309L-16	10081	ESAB INDIA LTD	OK.67.60		
70	WCS24	E308L-15	10774	D&H SECHERON ELECTRODES PVT LTD.	BATOX-B		
	WCS24	E308L-15	10081	ESAB INDIA LTD	ESAB 304B		
71	WCS25	E309L-15	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-309L-15		
	WCS25	E309L-15	10081	ESAB INDIA LTD	ESAB 309LC		
72	WCS26	E316L-15	10774	D&H SECHERON ELECTRODES PVT LTD.	BATOX-F		
	WCS26	E316L-15	10081	ESAB INDIA LTD	ESAB 316B		
73	WCS27	E310-16	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-310-16		
	WCS27	E310-16	10081	ESAB INDIA LTD	OK.67.13		
74	WCS28	E316-16	10036	BHARAT HEAVY ELECTRICALS LTD	BHEL-316		
	WCS28	E316-16	10774	D&H SECHERON ELECTRODES PVT LTD.	RUTOX-Mo		
	WCS28	E316-16	10081	ESAB INDIA LTD	OK.63.50		
75	WCS29	E316L-16	10036	BHARAT HEAVY ELECTRICALS LTD	BHEL-316L		
	WCS29	E316L-16	10774	D&H SECHERON ELECTRODES PVT LTD.	RUTOX-D		
	WCS29	E316L-16	10081	ESAB INDIA LTD	OK.63.30		
76	WCS30	E347-16	10785	ADOR WELDING LIMITED	SUPERINOX-1B		
	WCS30	E347-16	10774	D&H SECHERON ELECTRODES PVT LTD.	RUTOX-A(ST)		
	WCS30	E347-16	10081	ESAB INDIA LTD	OK.61.80		
	WCS30	E347-16	11378	MAILAM INDIA LTD	MAILEX-Anb		
	WCS30	E347-16	11420	MODI ARC ELECTRODES CO.	SS-347		
	WCS30	E347-16	13906	MARUTI WELD LIMITED,DELHI	SUPERALLOY 1A (St)		
	WCS30	E347-16	11227	HONAVAR ELECTRODES PVT.LTD, MUMBAI.	SILVERSHINE :347-16		

	WCS30	E347-16		LARSEN & TOUBRO LIMITED,MUMBAI	XUPER FAB E347-16		
77	WCS31	E410-15	10036	BHARAT HEAVY ELECTRICALS LTD	BHEL-410		
	WCS31	E410-15	11378	MAILAM INDIA LTD	MAILEX 410		
	WCS31	E410-15	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H 13Cr		
78	WCS32	E430-15	11378	MAILAM INDIA LTD	MAILEX 430		
	WCS32	E430-15	20050	NISSHO IWAI CORPORATION	CR-43		
	WCS32	E430-15	10172	NISSHO IWAI CORPORATION	CR-43		
	WCS32	E430-15	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H 17Cr		
79	WCS33	E309MO-16	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-309Mo		
	WCS33	E309MO-16	10081	ESAB INDIA LTD	O.K.67.70		
80	WCS34	E312-16	10081	ESAB INDIA LTD	ESAB RSW		
81	WCS35	E309CB-16	10774	D&H SECHERON ELECTRODES PVT LTD.	D&H-309Cb		
	WCS35	E309CB-16	10081	ESAB INDIA LTD	ESAB 309Cb		
82	WCS36	X20 ELECTRODE	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	FOX 20MVW		
	WCS36	X20 ELECTRODE	10148	MERDIAN EXPORTS	FOX 20MVW		
83	WCS37	ARMOUR STEEL ELECTRODE	10774	D&H SECHERON ELECTRODES PVT LTD.	SIAMO		
84	WCT01	HAYNESS ALLOY 25	20130	ALCONIX CORPORATION	BISHILITE No25		
	WCT01	HAYNESS ALLOY 25	10172	NISSHO IWAI CORPORATION	BISHILITE No25		
	WCT01	HAYNESS ALLOY 25	10780	P&S INTERNATIONAL	BISHILITE No25		
	WCT01	HAYNESS ALLOY 25	10313	ZIRCAST LTD	INDELLITE-GR25		
84A	WCT02	HAYNESS ALLOY 21	20130	ALCONIX CORPORATION	BISHILITE No21		

	WCT02	HAYNESS ALLOY 21	10041	BHAVANI AGENCY & CO	WT-21		
	WCT02	HAYNESS ALLOY 21	10172	NISSHO IWAI CORPORATION	BISHILITE No21		
	WCT02	HAYNESS ALLOY 21	10780	P&S INTERNATIONAL	BISHILITE No21		
	WCT02	HAYNESS ALLOY 21	20073	WEARTECH INTL INC	WT-21		
85	WCT03	RCOCRA	20130	ALCONIX CORPORATION	BISHILITE NO 21		
	WCT03	RCOCRA	10041	BHAVANI AGENCY & CO	WT-6		
	WCT03	RCOCRA	20018	DELORO STELLITE LIMITED	STELLITE-6 ROD		
	WCT03	RCOCRA	10172	NISSHO IWAI CORPORATION	BISHILITE NO 6 I		
	WCT03	RCOCRA	10780	P&S INTERNATIONAL	BISHILITE NO 6 I		
	WCT03	RCOCRA	10303	VIRGO CONSULTANTS PVT LTD	STELLITE-6 ROD		
	WCT03	RCOCRA	20073	WEARTECH INTL INC	WT-6		
	WCT03	RCOCRA	10313	ZIRCAST LTD	INDELLITE-GR6		
86	WCT04	COBALT BASED POWDER - WCPI 302	20130	ALCONIX CORPORATION	BISHILITE-NO 6 PPOWDER		
	WCT04	COBALT BASED POWDER - WCPI 302	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	CELSIT-VP		
	WCT04	COBALT BASED POWDER - WCPI 302	20018	DELORO STELLITE LIMITED	STELLITE-6W POWDER		
	WCT04	COBALT BASED POWDER - WCPI 302	20321	HOGANAS BELGIUM SA	HMSP2537		
	WCT04	COBALT BASED POWDER - WCPI 302	10745	HOGANAS INDIA LIMITED	HMSP2537		
	WCT04	COBALT BASED POWDER - WCPI 302	10172	NISSHO IWAI CORPORATION	BISHILITE-NO 6 POWDER		
	WCT04	COBALT BASED POWDER - WCPI 302	10780	P&S INTERNATIONAL	BISHILITE-NO 6 POWDER		

	WCT04	COBALT BASED POWDER - WCPI 302	20067	UTP SCHWEISS MATERIAL GMBH & C	UTP PTA 2.706.10		
	WCT04	COBALT BASED POWDER - WCPI 302	10303	VIRGO CONSULTANTS PVT LTD	STELLITE-6W POWDER		
	WCT04	COBALT BASED POWDER - WCPI 302	20073	WEARTECH INTL INC	WT-6		
						STRUCTURAL	
87	WCW01	EL 8WELDING WIRE FOR SAW	10785	ADOR WELDING LIMITED	Automelt Gr.A	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	10081	ESAB INDIA LTD.,CHENNAI	OK AUTROD 12.08L	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW		INDIAN METAL INDS,CALCUTTA	IMI WIRE	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	11288	JAGSHAAN INDUSTRIES . NAGPUR	JAG 1 A	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	15100	MANTEK WIRESS	MANTEK GR.A	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	14340	NALLI ARC INDUSTRIE, KANGEYAM	NALLI SA -1	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	15101	PRECISION WELDARC LTD, KOLKATA	METASPOOL S1 DIA4.00 MM	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	14455	WIRE & WIRE PRODUCTS, CHENNAI	ESARC	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	13693	SUNWIRES	SUNWIRES	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	15810	NOUVEAX INDUSTRIES (P) LTD,KANGAYAM	NOUVAX	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	13693	RASI ELECTRODES LTD, CHENNAI	RASI EL 8	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	15084	DWEKAM ELECTRODES LTD,INDORE	MERGEARC GRADE A	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	15085	VOLTARC ELECTRODE PVT. LTD.,TIRUPATHI	SAW WIRE EL - 8	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	16166	EVERSHINE WIRES, PULIVALAM	SHINE ARC	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	18080	ANNAI SIVAKAMI AMMAL INDUSTRIES,	JTM-9 WIRE	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	14791	ANAND ARC LTD,CHENNAI	ANAND SAW - 1	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	19905	T.M.INDUSTRIES,RAIPUR	BRAND - TMI - 1 (S)	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	10774	D&H SECHERON ELECTRODES PVT LTD.	AUTOTHERME GRADE A	STRUCTURAL	

	WCW01	EL 8WELDING WIRE FOR SAW	19114	WELMET TECHNOLOGIES PVT. LTD,NAGPUR.	WELMET WIRE EL8	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	11378	MAILAM INDIA LTD	MAILAM SAW 8	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	17813	K.M.CROWN WELDING CONSUMABLES PVT. LTD., DEWAS	CROWN EL 8	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	13211	D&H WELDING ELECTRODES INDIA LTD,INDORE	SUPERMELT GR-A	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	13534	RUPA INDUSTRIES,SECUNDERABAD	RUPA SAW-1	STRUCTURAL	
	WCW01	EL 8WELDING WIRE FOR SAW	11528	RAAJARATNA ELECTRODES PVT. LTD,MEHSANA	RAAJSAW - 1	STRUCTURAL	
88	WCW02	EB3	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	BOHLER CM 2-UP		
	WCW02	EB3	20563	BOHLER THYSSEN SCHWEISSTECHNIK	UNION S 1 Cr Mo 2		
	WCW02	WCC01	20047	NIKKO BOEKI COMPANY,JAPAN	US-521		
	WCW02	EB3	10305	WELD WELL SPECIALITY PVT LTD	US-521		
89	WCW03	EH14	20563	BOHLER THYSSEN SCHWEISSTECHNIK	UNION S4		
	WCW03	EH14	10081	ESAB INDIA LTD	OK AUTROD12.40L		
	WCW03	EH14	20047	NIKKO BOEKI KAISHA LTD	US-36		
	WCW03	EH14	10305	WELD WELL SPECIALITY PVT LTD	US-36		
90	WCW04	ER430	10081	ESAB INDIA LTD	OK.AUTROD 430		
	WCW04	ER430	20033	KISWEL LTD.,	M-430		
	WCW04	ER430	10158	MITSUI & CO LTD	M-430		
	WCW04	ER430	20047	NIKKO BOEKI KAISHA LTD	US-430		
	WCW04	ER430	10305	WELD WELL SPECIALITY PVT LTD	US-430		
91	WCW05	ER410	20033	KISWEL LTD.,	M-410		
	WCW05	ER410	10158	MITSUI & CO LTD	M-410		
	WCW05	ER410	20047	NIKKO BOEKI COMPANY,JAPAN	US-410		
	WCW05	ER410	10305	WELD WELL SPECIALITY PVT LTD	US-410		
92	WCW06	EB2	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	EMS 2 Cr Mo		
	WCW06	EB2	20563	BOHLER THYSSEN SCHWEISSTECHNIK	UNION S 2 Cr Mo		

	WCW06	EB2	20047	NIKKO BOEKI COMPANY,JAPAN	US-511		
	WCW06	EB2	10305	WELD WELL SPECIALITY PVT LTD	US-511		
93	WCW07	EA3	20047	NIKKO BOEKI COMPANY,JAPAN	US-40		
	WCW07	EA3	10305	WELD WELL SPECIALITY PVT LTD	US-40		
94	WCW08	EA4	20011	BOHLER SCHWEISSTECHNIK AUSTRIA			
	WCW08	EA4	20563	BOHLER THYSSEN SCHWEISSTECHNIK	UNION S 3 Mo		
	WCW08	EA4	20359	KUSAKABE KIKAI CO.LTD.	KW- 50C		
	WCW08	EA4	20047	NIKKO BOEKI COMPANY,JAPAN	US-49		
	WCW08	EA4	10305	WELD WELL SPECIALITY PVT LTD	US-49		
95	WCW09	EM12K	20563	BOHLER THYSSEN SCHWEISSTECHNIK	UNION S2SI		
	WCW09	EM12K	10081	ESAB INDIA LTD	OK.AUTROD 12.22L		
	WCW09	EM12K	20359	KUSAKABE KIKAI CO.LTD.	KW- 43B		
	WCW09	EM12K	20047	NIKKO BOEKI KAISHA LTD	US-29		
	WCW09	EM12K	20560	THE LINCOLN ELECTRIC	L61		
	WCW09	EM12K	10305	WELD WELL SPECIALITY PVT LTD	US-29		
	WCW09	EM12K	17840	JAGSHAAN INDUSTRIES	JAG3	STRUCTURAL	
	WCW09	EM12K	15101	PRECISION WELDARC LTD, KOLKATA.	PWL SAW3	STRUCTURAL	
	WCW09	EM12K	10774	D&H SECHERON ELECTRODES PVT LTD.	AUTOTHERME GRADE B	STRUCTURAL	
	WCW09	EM12K	14340	NALLI ARC INDUSTRIE	NALLI EM12K	STRUCTURAL	
	WCW09	EM12K	15810	NOUVEAX INDUSTRIES (P) LTD,KANGAYAM	NOUVARC S2	STRUCTURAL	
	WCW09	EM12K	14455	WIRE & WIRE PRODUCTS, CHENNAI	ESARK EM12K	STRUCTURAL	
	WCW09	EM12K	19114	WELMET TECHNOLOGIES PVT. LTD,NAGPUR.	WELMET WIRE EM 12K	STRUCTURAL	
	WCW09	EM12K	11378	MAILAM INDIA LTD	MAILAM SAW 12	STRUCTURAL	
	WCW09	EM12K	13534	RUPA INDUSTRIES,SECUNDERABAD	RUPA SAW-2	STRUCTURAL	
96	WCW11	EL8 PPM WIRE	11288	JAGSHAAN INDUSTRIES	JAG-1		
	WCW11	EL8 PPM WIRE	20359	KUSAKABE KIKAI CO.LTD.	KW -43		
	WCW11	EL8 PPM WIRE	20047	NIKKO BOEKI COMPANY,JAPAN	US-43		
	WCW11	EL8 PPM WIRE	10305	WELD WELL SPECIALITY PVT LTD	US-43		
97	WCW12	SFA 5.23 E B9	20011	BOHLER SCHWEISSTECHNIK	BOHLER C9MV-		

				AUSTRIA	UP		
	WCW12	SFA 5.23 E B9	20563	BOHLER THYSSEN SCHWEISSTECHNIK	THERMANIT MTS-3		
	WCW12	SFA 5.23 E B9	10081	ESAB INDIA LTD.,CHENNAI	OK 13.35		
	WCW12	SFA 5.23 E B9	21411	METRODE PRODUCTS, U.K.	9CrMoV-N		
	WCW12	SFA 5.23 E B9	20047	NIKKO BOEKI COMPANY,JAPAN			
	WCW12	SFA 5.23 E B9	21410	OERLIKON WELDING LTD., SWITZERLAND			
98	WCF11	ER70S-6 BULK PACK.	10081	ESAB INDIA LTD			
	WCF11	ER70S-6 BULK PACK.	15084	DWEKAM ELECTRODES PVT. LTD., INDORE			
	WCF11	ER70S-6 BULK PACK.	13906	MARUTI WELD LIMITED,DELHI			
	WCF11	ER70S-6 BULK PACK.	15810	NOUVEAX INDUSTRIES (P) LTD,KANGAYAM			
	WCF11	ER70S-6 BULK PACK.	10785	ADOR WELDING LIMITED			



DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM ST-1 2 X 800 MW

PGMA : 80-433

CUST. No. : 7019 & 7020

PGMA DESC : SPRAY WATER FROM BFP INTERSTAGE

ASSY. DRG. NO. : 1-80-433-17053

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
1	SA106GrC(A)	114.3	13.49	25	13.5V	--	ERT70S-A1	TIG	Ø2.50	850.0gms	
	SA106GrC(A)						E7018A1(A)	ARC	Ø2.50	275No's	
2	SA106GrC(A)	168.3	21.95	3	22.0V	--	E7018A1(A)	ARC	Ø3.15	72No's	
	SA106GrC(A)						E7018A1(A)	ARC	Ø4.00	39No's	
REV	DATE	ALTERED:	KONDAPA	FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED							
01	02.06.12	APPROVED:	R.SESHAGIRI	VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.							
REVISED AS QUALITY(SITE) COMMENTED											
PREPARED		DESIGN/CHD./APD.			DATE		DRAWING No.:		REV.		
KONDAPP		KONDAPA			31/10/11		4-80-433-73071		01		
SHEET: 1 of 1											



DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM ST-1 2 X800 MW

PGMA : 80-451

CUST. No. : 7019 & 7020

PGMA DESC : BOILER INTEGRAL PIPING DRAINS

ASSY. DRG. No. : 2-80-451-10663 2-80-451-10455
1-80-451-17270 2-80-451-10456 2-80-451-10374

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
1	SA106GrC(A)	168.3	27.50	29	27.5 √	--	ER70S-A1	TIG	Ø2.50	1305.0gms	
	E7018A1(A)						ARC	Ø2.50	406No's		
2	SA335P22(A)	73.0	14.02	55	14.0 √	--	ER90S-B3	TIG	Ø2.50	1155.0gms	
	E9018B3						ARC	Ø2.50	358No's		
	E9018B3						ARC	Ø3.15	451No's		
3	SA106GrC(A)	88.9	15.24	8	15.2 √	--	ER70S-A1	TIG	Ø2.50	360.0gms	
	E7018A1(A)						ARC	Ø2.50	120No's		
	E7018A1(A)						ARC	Ø3.15	150No's		
4	SA106GrC(A)	88.9	15.24	8	15.2 √	--	ER90S-B3	TIG	Ø2.50	360.0gms	
	E9018B3						ARC	Ø2.50	120No's		
	E9018B3						ARC	Ø3.15	150No's		
5	SA335P22(A)	168.3	10.97	33	11.0 √	--	ER90S-B3	TIG	Ø2.50	1683.0gms	
	SA335P22(A)						ARC	Ø2.50	495No's		
							E9018B3	ARC	Ø3.15	759No's	

REV 01 DATE 02.06.12 APPROVED: R.SESHAGIRI
ALTERED: KONDAPA
REVISD AS QUALITY(SITE) COMMENTED

FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED: **KONDAPP** DESIGN/CHD./APD. **KONDAPP** DATE: 31/10/11 DRAWING No.: 4-80-451-73547 REV. 01
SHEET: 1 of 2

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW

PGMA : 80-452

CUST. No. : 7019 & 7020

PGMA DESC : HP PIPING DRAINS – SG SCOPE

ASSY. DRG. NO. : 1-80-452-17086

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE				REMARKS
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)	QUANTITY	
1	SA335P91(A)	60.3	12.5	~100	12.5√	---	ER90SB9 E9015 B9 E9015 B9	TIG ARC ARC	Ø2.40 Ø2.50 Ø3.15	910gms 1300No's 700No's	
	SA335P91(A)										
2	SA335P91(A)	33.4	9.09	~80	9.09√	---	ER90SB9 E9015 B9	TIG ARC	Ø2.40 Ø2.50	288gms 1120No's	
	SA335P91(A)										
3	SA335P91(A)	60.3	5.54	~35	5.54√	---	ER90SB9 E9015 B9	TIG ARC	Ø2.40 Ø2.50	441gms 350No's	
	SA335P91(A)										
4	SA335P91(A)	33.4	4.55	~150	4.55√	---	ER90SB9 E9015 B9	TIG ARC	Ø2.40 Ø2.50	960gms 600No's	
	SA335P91(A)										
5	SA335P22(A)	60.3	5.54	~35	5.54√	---	ER90SB9 E9015 B3	TIG ARC	Ø2.40 Ø2.50	441gms 350No's	
	SA335P22(A)										

REV 01 DATE 02.06.12 ALTERED: KONDAPA APPROVED: R.SESHAGIRI
 REVERSED AS QUALITY(SITE) COMMENTED FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED KONDAPA **DESIGN/CHD.** KONDAPA **DESIGN/APD.** KVRAMANI **CHD./APD. - QA** **DATE** 02.03.12 **DRAWING No.:** 4-80-452-73123 **REV.** 01
SHEET: 1 of 2

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW

PGMA : 80-453

CUST. No. : 7019 & 7020

PGMA DESC : LP PIPING DRAINS – SG SCOPE

ASSY. DRG. No. : 3-80-453-28816

SL No.	MATERIAL SPECN.1	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE				REMARKS
	MATERIAL SPECN.2	OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC / GAS / TIG.	SIZE (mm)	QUANTITY	
1	SA106GrB(A)	33.4	4.55	~18	4.6√	--	ERT0S-A1	TIG	Ø2.40	111.6gms	
	SA106GrB(A)						ERT018-1	ARC	Ø2.50	90No's	
2	SA106GrB(A)	21.3	3.73	~6	3.7√	--	ERT0S-A1	TIG	Ø2.40	81.0gms	
	SA106GrB(A)										
3	SA106GrB(A)	33.4	4.55	~200	5√	--	ERT018-1	ARC	Ø2.50	250No's	
	SA106GrB(A)										
REV	DATE	ALTERED: KONDAPA									
01	02.06.12	APPROVED: R SESHAGRI									
REVISED AS QUALITY(SITE) COMMENTED		FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.									
PREPARED	DESIGN/CHD.	DESIGN/APP.	CHD./APP. - QA	DATE	DRAWING No.:	REV.					
KONDAPA	KONDAPA	KVRAMANI		02.03.12	4-80-453-73790	01	SHEET: 1 of 1				



DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW

PGMA : 80-454

CUST. No. : 7019 & 7020

PGMA DESC : SCAPH DRAINS

ASSY. DRG. NO. : ---

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
1	SA106GrB(A)	88.9	5.49	26	5.5√	--	E7018-1	ARC	Ø2.40	509.6gms 390No's	
	SA106GrB(A) SA234WPB(A)										
1	SA106GrB(A)	33.4	4.55	--	5√	0.60	E7018-1	ARC	Ø2.50	7No's	
	SA106GrB(A) SA105										
2	SA106GrB(A)	21.3	3.73	--	5√	0.19	E7018-1	ARC	Ø2.50	2No's	
	SA106GrB(A) SA105										
3	SA106GrB(A)	48.3	5.08	--	5√	3.65	E7018-1	ARC	Ø2.50	40No's	
	SA106GrB(A) SA105										
4	SA106GrB(A)	60.3	5.54	--	6√	10.41	E7018-1	ARC	Ø2.50	156No's	
	SA106GrB(A) SA105										
REV 01	DATE 02.06.12	ALTERED: KONDAPA	FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.								
REVISED AS QUALITY(SITE) COMMENTED											
PREPARED	DESIGN/CHD.	DESIGN/APD.	CHD./APD. - QA	DATE	DRAWING No.:	REV.					
KONDAPA	KONDAPA	KVRAMANI		02.03.12	4-80-454-72889	01	SHEET: 1 of 1				



DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM ST-1 2 X 800 MW

PGMA : 80-455

CUST. No. : 7020

2-80-455-10872 2-80-455-10948 2-80-455-11034
ASSY. DRG. NO. : 2-80-455-17399 2-80-455-17404

PGMA DESC : DRAIN FROM UNLISTED EQPT/VESSEL-SG SCOPE

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
1	SA106GrB	219.1	12.70	17	12.7√	--	ER70S-A1	TIG	Ø2.50	1140.0gms	
	SA106GrB						E7018-1	ARC	Ø2.50	289No's	
2	SA106GrB	323.9	9.53	55	9.5√	--	ER70S-A1	TIG	Ø2.50	5720.0gms	FOR SECOND UNIT ONLY
	SA106GrB						E7018-1	ARC	Ø2.50	1320No's	
3	SA106GrC	610.0	10.0	10	10.0√	--	ER70S-A1	TIG	Ø2.50	1840.0gms	FOR SECOND UNIT ONLY
	SA106GrC						E7018-1	ARC	Ø3.15	420No's	
4	SA106GrB	88.9	5.49	23	5.5√	--	ER70S-A1	TIG	Ø2.50	450.8gms	FOR SECOND UNIT ONLY
	SA106GrB						E7018-1	ARC	Ø2.50	345No's	
5	SA106GrC	508.0	10.0	20	10.0√	--	ER70S-A1	TIG	Ø2.50	3340.0gms	FOR SECOND UNIT ONLY
	SA106GrC						E7018-1	ARC	Ø2.50	760No's	
							E7018-1	ARC	Ø3.15	1200No's	

REV 01 DATE 02.06.12 ALTERED: KONDAPPA APPROVED: R.SESHAGIRI
 REVERSED AS QUALITY(SITE) COMMENTED FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED
 KONDAPP
 DESIGN/CHD./APPD.
 KONDAPP

DATE
 02/11/11

DRAWING No.:
 4-80-455-73638
 SHEET: 1 of 1

REV.
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DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM ST-1 2 X 800 MW

PGMA : 80-455

CUST. No. : 7020

PGMA DESC : DRAIN FROM UNLISTED EQPT/VESSEL-SG SCOPE

ASSY. DRG. NO. : 2-80-455-10872 2-80-455-10948 2-80-455-11034
2-80-455-17399 2-80-455-17404

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
6	SA106GrB	406.4	9.53	7	9.5√	--	ER70S-A1	TIG	Ø2.50	924.0gms	FOR SECOND UNIT ONLY
	SA106GrB						ER7018-1	ARC	Ø2.50	210No's	
7	SA106GrB	273.0	9.27	43	9.3√	--	ER70S-A1	TIG	Ø2.50	3741.0gms	FOR SECOND UNIT ONLY
	SA106GrB						ER7018-1	ARC	Ø2.50	860No's	
8	SA106GrB	355.6	9.53	60	9.5√	--	ER70S-A1	TIG	Ø2.50	6900.0gms	FOR SECOND UNIT ONLY
	SA106GrB						ER7018-1	ARC	Ø3.15	1620No's	
9	SA106GrB	219.1	6.35	5	6.4√	--	ER70S-A1	TIG	Ø2.50	355.0gms	FOR SECOND UNIT ONLY
	SA106GrB						ER7018-1	ARC	Ø2.50	185No's	
10	SA106GrB	1854	12	12	12√	--	ER70S-A1	TIG	Ø2.50	7080.0gms	FOR SECOND UNIT ONLY
	SA106GrB						ER7018-1	ARC	Ø2.50	1692No's	
	SA106GrB						ER7018-1	ARC	Ø3.15	2760No's	
							ER7018-1	ARC	Ø4.00	756No's	

REV 01 DATE 02.06.12 APPROVED: R.SESHAGIRI
 ALTERED: KONDAPA
 FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED
 REVISD AS QUALITY(SITE) COMMENTED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED: **KONDAPP** DESIGN/CHD./APD. **KONDAPP** DATE: 02/11/11 DRAWING No.: 4-80-455-73638 REV. 01
 SHEET: 1 of 1

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW	PGMA : 80-460
CUST. No. : 7019 & 7020	PGMA DESC : SG AUX COOLING WATER UNIT SYSTEM
ASSY. DRG. NO. : -----	

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
1	AP5LGRB	323.9	6.4	~150	6.4 ∇	---	E6013	ARC	Ø2.50	3600No's 2250No's	
	AP5LGRB SA234WPB										
2	IS1239BLACK	114.3	5.4	~2	5.4 ∇	---	E6013	ARC	Ø2.50	42No's	
	SA234WPB										
3	IS1239BLACK	88.9	4.8	~16	4.8 ∇	---	E6013	ARC	Ø2.50	240No's	
	SA234WPB										
4	IS1239BLACK	NB100	5.4	~70	5.4 ∇	---	E6013	ARC	Ø2.50	1470No's	
	IS1239BLACK										
5	IS1239BLACK	NB80	4.8	~750	4.8 ∇	---	E6013	ARC	Ø2.50	11250No's	
	IS1239BLACK										

FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED
VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED KONDAPA	DESIGN/CHD./APD. KVRAMANI	DATE 05/03/12	DRAWING No.: 4-80-460-72890	REV. 00
			SHEET: 1 of 2	



DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW

PGMA : 80-460

CUST. No. : 7019 & 7020

PGMA DESC : SG AUX COOLING WATER UNIT SYSTEM

ASSY. DRG. NO. : -----

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
6	IS1239BLACK	NB50	4.5	~380	4.5∇	--	E6013	ARC	Ø2.50	3800No's	
	IS1239BLACK										
7	IS1239BLACK	NB40	4.0	~150	4.0∇	--	E6013	ARC	Ø2.50	1200No's	
	IS1239BLACK										
8	IS1239BLACK	NB25	4.0	~650	4.0∇	--	E6013	ARC	Ø2.50	3250No's	
	IS1239BLACK										
9	IS1239BLACK	NB15	3.2	~100	3.2∇	--	E6013	ARC	Ø2.50	3000No's	
	IS1239BLACK										

FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED

KONDAPA

DESIGN/CHD./APD.

KVRAMANI

DATE

05/03/12

DRAWING No.:

4-80-460-72890

REV.

00

SHEET: 2 of 2

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW	PGMA : 80-471
CUST. No. : 7019 & 7020	PGMA DESC : BOILER WATER WASH TO AND FROM UNIT
ASSY. DRG. NO. : -----	

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
1	IS3589	406.4	6.0	~90	6.0 ∇	---	E6013	ARC	Ø2.50	2700No's	
	IS3589										
2	IS3589	273	6.0	~80	6.0 ∇	---	E6013	ARC	Ø2.50	1600No's	
	IS3589										
3	IS3589	219.1	6.0	~3	6.0 ∇	---	E6013	ARC	Ø2.50	120No's	
	IS3589										
4	IS1239BLACK	NB150	5.4	~120	5.4 ∇	---	E6013	ARC	Ø2.50	1800No's	
	IS1239BLACK										
5	IS1239BLACK	NB25	4.0	~120	4.0 ∇	---	E6013	ARC	Ø2.50	240No's	
	IS1239BLACK										

FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED
VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED KONDAPA	DESIGN/CHD./APD. KVRAMANI	DATE 05/03/12	DRAWING No.: 4-80-471-72891	REV. 00
SHEET: 1 of 2				



DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW

PGMA : 80-471

CUST. No. : 7019 & 7020

PGMA DESC : BOILER WATER WASH TO AND FROM UNIT

ASSY. DRG. NO. : -----

SL No.	MATERIAL SPECN.1 MATERIAL SPECN.2	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
		OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
6	IS1239BLACK	NB15	3.2	~60	3.2 ∇	---	E6013	ARC	Ø2.50	90No's	
	IS1239BLACK										

FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED KONDAPA	DESIGN/CHD./APD. KVRAMANI	DATE 05/03/12	DRAWING No.: 4-80-471-72891	REV. 00
				SHEET: 2 of 2

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW	PGMA : 80-480
CUST. No. : 7019 & 7020	PGMA DESC : FIRE WATER-OTHER AREAS
ASSY. DRG. NO. : -----	

SL No.	MATERIAL SPECN.1		PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS
	MATERIAL SPECN.2	OD (in mm)	THK (in mm)	SPECN. (ATTEST)				ARC/GAS/TIG.	SIZE (mm)	QUANTITY	
1	IS3589	406.4	6.0	~90	6.0 ∇	---	E6013	ARC	Ø2.50	2700No's	
	IS3589										
2	IS3589	273	6.0	~80	6.0 ∇	---	E6013	ARC	Ø2.50	1600No's	
	IS3589										
3	IS3589	219.1	6.0	~3	6.0 ∇	---	E6013	ARC	Ø2.50	120No's	
	IS3589										
4	IS1239BLACK	NB80	4.8	~120	4.8 ∇	---	E6013	ARC	Ø2.50	1800No's	
	IS1239BLACK										
5	IS1239BLACK	NB25	4.0	~120	4.0 ∇	---	E6013	ARC	Ø2.50	240No's	
	IS1239BLACK										

FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED
VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED KONDAPA	DESIGN/CHD./APD. KVRAMANI	DATE 05/03/12	DRAWING No.: 4-80-480-72892	REV. 00
SHEET: 1 of 2				



DD01

ERECTION WELDING SCHEDULE

PROJECT : KRISHNAPATNAM 2X800MW

PGMA : 80-480

CUST. No. : 7019 & 7020

PGMA DESC : FIRE WATER-OTHER AREAS

ASSY. DRG. NO. : -----

SL No.	MATERIAL SPECN.1	PIPE SIZE		TOTAL No. OF JOINTS	WELD SPECN.	TOTAL LENGTH OF WELD (in m)	RECOMMENDED ELECTRODE / WIRE			REMARKS	
	MATERIAL SPECN.2	OD (in mm)	THK (in mm)				SPECN. (ATTEST)	ARC/GAS/TIG.	SIZE (mm)		QUANTITY
6	IS1239BLACK	NB15	3.2	~60	3.2▽	---	E6013	ARC	Ø2.50	90No's	
	IS1239BLACK										

FOR WPS, HEAT TREATMENT AND NDT REQUIREMENTS, THE STANDARD DOCUMENT ISSUED VIDE STANDARD DRG. NO. 4-80-999-93172 AND 4-80-999-93173 SHALL BE REFERRED.

PREPARED

KONDAPA

DESIGN/CHD./APD.

KVRAMANI

DATE

05/03/12

DRAWING No.:

4-80-480-72892

REV.

00

SHEET: 2 of 2