



Owner:
HINDALCO INDUSTRIES LIMITED
Ahura Centre, 1st Floor, B Wing, Mahakali Caves Road, Andheri (East), Mumbai - 400 093, India



EPCM Contractor:
W. L. GORE & ASSOCIATES (Pacific) Pte. Ltd. India Branch
703, A-Wing, 215 Atrium, Andheri Kurla Road, Mumbai 400059, India



Nominated Subcontractor - Engineering, Quality Control, Supervision:
SMARTLuth Solution and Service Pvt. Ltd.
Unit No: 503, 5th Floor, ECO Centre, EM-4 Sector-V, Salt Lake City, Kolkata - 700091, India

FGD EQUIPMENT LIST

Pos	Tag No	PFD Ref. No.	Equipment Description	Specification	QTY	Unit
A MAJOR EQUIPMENT						
A.1	50HNC10AN001	S21001-XF01-05HSD-227001	BOOSTER FAN WITH 2 NOS. SUCTION DAMPER		1	Set
A.2	50HTH10AC001	S21001-XF01-05HSD-227001	MIST COOLING UNIT (MCU)		1	No
A.3	50HSD10BA001	S21001-XF01-05HSD-227001	FLUE GAS TREATMENT REACTOR (FGTR)		1	No
A.4	50HSF10BC001	S21001-XF01-05HSD-227001	MIST ELIMINATOR		1	Set
A.5	50HNE10UD001	S21001-XF01-05HSD-227001	WET STACK		1	No
A.6	50GNK10AA007	S21001-XF01-05HSD-227001	NEUTRALISATION TANK (RCC)	Capacity: 20 m3	1	No
B OTHER EQUIPMENT						
B.1	50GNK30AD001- AD007	S21001-XF01-05HSD-227001	MCU MISTING NOZZLES		28	Nos.
B.2	50GNK30AD008- AD014	S21001-XF01-05HSD-227001	MCU SAFETY NOZZLES		28	Nos.
B.3	50GNK20ADXXX	S21001-XF01-05HSD-227001	MCU HOPPER CLEANING NOZZLES		1	Lot
B.4	Under Development	S21001-XF01-05HSD-227001	CATALYST MODULES		1	Lot
B.5	50HSM20AD015 - 020	S21001-XF01-05HSD-227001	MODULE WASH NOZZLES		990	Nos
B.6	50HSM20AD021 - 024	S21001-XF01-05HSD-227001	MODULE MISTING NOZZLES		440	Nos
B.7	50PBL20ADXXX	S21001-XF01-05HSD-227001	MAKE-UP WATER NOZZLES		1	Lot
B.8	50PBL20ADXXX	S21001-XF01-05HSD-227001	DEMISTER WASH NOZZLES		1	Lot
B.9	50HSM40ADXXX	S21001-XF01-05HSD-227001	FGTR HOPPER CLEANING NOZZLES		1	Lot
B.10	50HTA11AY001, 50HTA21AY002-003, 50HTA30AY004, 50HTA31AY005, 50HTA32AY006, 50HTA40AY007-011 & 50HSD10AY012	S21001-XF01-05HSD-227001	FLUE GAS DUCTS EXPANSION JOINTS		1	Lot
C TANKS						
C.1	50PBL10BB001	S21001-XF01-05HSD-227001	FRESH WATER TANK	Capacity: 25 m3	1	No
C.2	50GNK13BB002	S21001-XF01-05HSD-227001	PROCESS WATER TANK (0.25% ACID CONCENTRATION)	Capacity: 50 m3	1	No
C.3	50PBL20BB003	S21001-XF01-05HSD-227001	OVERHEAD TANK	Capacity: 5 m3	1	No
C.4	50HSM34BB004	S21001-XF01-05HSD-227001	EFFLUENT STORAGE TANK	Capacity: 50 m3	1	No
C.5	50GNK10BB005	S21001-XF01-05HSD-227001	SAC RECOVERED WATER TANK	Capacity: 50 m3	1	No
C.6	50GNE20BB006	S21001-XF01-05HSD-227001	95% H2SO4 STORAGE TANK	Capacity: 50 m3	1	No
D PUMPS						
D.1	50PBL11AP003	S21001-XF01-05HSD-227001	MIST-ELIMINATOR/OHT FGTR MAKE-UP/ ASH FILTER- FRESH WATER PUMP-A	Capacity: 40 m3/h Head: 65 mwc	1	Set
D.2	50PBL12AP004	S21001-XF01-05HSD-227001	MIST-ELIMINATOR/OHT FGTR MAKE-UP/ ASH FILTER- FRESH WATER PUMP-B	Capacity: 40 m3/h Head: 65 mwc	1	Set
D.3	50GNK14AP001	S21001-XF01-05HSD-227001	PROCESS WATER PUMP -A	Capacity: 36 m3/h Head: 160 mwc	1	Set
D.4	50GNK15AP002	S21001-XF01-05HSD-227001	PROCESS WATER PUMP -B	Capacity: 36 m3/head Head: 160 MWC	1	Set



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FGD EQUIPMENT LIST

Pos	Tag No	PFD Ref. No.	Equipment Description	Specification	QTY	Unit
D.5	50HSM11AP005	S21001-XF01-05HSD-227001	FGTR MODULE WASH PUMP-A	Capacity: 100 m3/head Head: 70 mwc	1	Set
D.6	50HSM12AP006	S21001-XF01-05HSD-227001	FGTR MODULE WASH PUMP-B	Capacity: 100 m3/h Head: 70 mwc	1	Set
D.7	50GNK11AP009	S21001-XF01-05HSD-227001	PUMP TO CLIENT SERVICES-A	Capacity: 15 m3/h Head: 35 mwc	1	Set
D.8	50GNK12AP010	S21001-XF01-05HSD-227001	PUMP TO CLIENT SERVICES-B	Capacity: 15 m3/h Head: 35 mwc	1	Set
D.9	50HSM21AP007	S21001-XF01-05HSD-227001	FGTR EFFLUENT TRANSFER PUMP-A	Capacity: 12 m3/h Head: 60 mwc	1	Set
D.10	50HSM22AP008	S21001-XF01-05HSD-227001	FGTR EFFLUENT TRANSFER PUMP-B	Capacity: 12 m3/head Head: 60 mwc	1	Set
D.11	50HSM35AP011	S21001-XF01-05HSD-227001	SAC INLET PUMP-A	Capacity: 12 m3/head Head: 30 mwc	1	Set
D.12	50HSM36AP012	S21001-XF01-05HSD-227001	SAC INLET PUMP-B	Capacity: 12 m3/head Head: 30 mwc	1	Set
D.13	50GNK11AP013	S21001-XF01-05HSD-227001	SAC RECOVERED WATER -A	Capacity: 12 m3/head Head: 35 mwc	1	Set
D.14	50GNK12AP014	S21001-XF01-05HSD-227001	SAC RECOVERED WATER -B	Capacity: 12 m3/head Head: 35 mwc	1	Set
D.15	50GNE23AP015	S21001-XF01-05HSD-227001	SAC START-UP RECIRCULATION PUMP - A	Capacity: 1 m3/head Head: 20 mwc	1	Set
D.16	50GNE24AP016	S21001-XF01-05HSD-227001	SAC START-UP RECIRCULATION PUMP - B	Capacity: 1 m3/head Head: 20 mwc	1	Set
D.17	50GNE21AP017	S21001-XF01-05HSD-227001	CONCENTRATED ACID LOADING PUMP - A	Capacity: 15 m3/head Head: 20 mwc	1	Set
D.18	50GNE22AP018	S21001-XF01-05HSD-227001	CONCENTRATED ACID LOADING PUMP - B	Capacity: 15 m3/head Head: 20 mwc	1	Set
E	DAMPERS					
E.1	50HTA10AQ001	S21001-XF01-05HSD-227001	DAMPER		1	Set
E.2	50HTA20AQ002	S21001-XF01-05HSD-227001	DAMPER		1	Set
E.3	50HTA11AQ003	S21001-XF01-05HSD-227001	DAMPER		1	Set
E.4	50HTA21AQ004	S21001-XF01-05HSD-227001	DAMPER		1	Set
F	FILTERS					
F.1	50HSM31AT001	S21001-XF01-05HSD-227001	FGTR EFFLUENT ASH FILTER -A		1	Set
F.2	50HSM32AT002	S21001-XF01-05HSD-227001	FGTR EFFLUENT ASH FILTER -B		1	Set
G	ELECTRICAL ITEMS					
G.1	Under Development	S21001-XF01-05HSD-227001	TRANSFORMER		1	Set
G.2	Under Development	S21001-XF01-05HSD-227001	BOOSTER FAN VFD PANEL		1	Set
G.3	Under Development	S21001-XF01-05HSD-227001	PMCC FOR PROCESS PLANT		1	Set