

Annexure 1A

Lot Nos. 1 - 34 (Assets)

Korangi Combined Cycle Power Plant (KCCPP) - Lot Details

Lot No	Lot Description	Lot Details	Mode of Disposal	Quantity
1	Package of Gas Turbine 1	Synchronous Generator Make:Meidensha, 64.5MVA 11.5KV, 50Hz	Lot	1
		Reduction Gear Box Make: Flender Model: TX61/1CV, 1.209:1	Lot	1
		Air Intake House	Lot	1
		Acoustic Package Enclosure	Lot	1
		Enclosure Ventilation System	Lot	1
		Exhaust Transition , Diffuser and Stack	Lot	1
		GT Exhaust duct	Lot	1
		Turbine Lube Oil Skid	Lot	1
		Generator Lube & Jacking Oil Skid	Lot	1
		Hydraulic Starter Assembly Skid	Lot	1
		Fuel Gas Duplex Filters Skid	Lot	1
		Liquid Fuel Transfer skid	Lot	1
		Sprint Skid	Lot	1
		LP & HP Water injection Skid	Lot	1
		Water Wash Skid	Lot	1
		CO2 Cylinders Skid	Lot	1
		Motor Control Center (MCC)	Lot	1
		125 VDC Battery System for DC Lube	Lot	1
		24 VDC Battery System for Fire & Gas Module	Lot	1
		24 VDC Battery System for Control System	Lot	2
		Gas & Flame Detection System	Lot	1
		Control Panels (TCP, GCP, MGTB, MTTB)	Lot	1
		GT HMI System	Lot	1
2	Package of Gas Turbine 2	Synchronous Generator Make:Meidensha, 64.5MVA 11.5KV, 50Hz	Lot	1
		Reduction Gear Box Make: Lufkin Model:NFVQ2419D, 1.209:1	Lot	1
		Air Intake House	Lot	1
		Acoustic Package Enclosure	Lot	1
		Enclosure Ventilation System	Lot	1
		Exhaust Transition , Diffuser and Stack	Lot	1
		GT Exhaust duct	Lot	1
		Turbine Lube Oil Skid	Lot	1
		Generator Lube & Jacking Oil Skid	Lot	1
		Hydraulic Starter Assembly Skid	Lot	1
		Fuel Gas Duplex Filters Skid	Lot	1
		Liquid Fuel Transfer skid	Lot	1
		Sprint Skid	Lot	1

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		LP & HP Water injection Skid	Lot	1
		Water Wash Skid	Lot	1
		CO2 Cylinders Skid	Lot	1
		Motor Control Center (MCC)	Lot	1
		125 VDC Battery System for DC Lube	Lot	1
		24 VDC Battery System for Fire & Gas Module	Lot	1
		24 VDC Battery System for Control System	Lot	2
		Gas & Flame Detection System	Lot	1
		Control Panels (TCP, GCP, MGTB, MTTB)	Lot	1
		GT HMI System	Lot	1
3	Package of Gas Turbine 3	Synchronous Generator Make:Meidensha, 64.5MVA 11.5KV, 50Hz	Lot	1
		Reduction Gear Box Make: Flender Model: TX61/1CV, 1.209:1	Lot	1
		Air Intake House	Lot	1
		Acoustic Package Enclosure	Lot	1
		Enclosure Ventilation System	Lot	1
		Exhaust Transition , Diffuser and Stack	Lot	1
		GT Exhaust duct	Lot	1
		Turbine Lube Oil Skid	Lot	1
		Generator Lube & Jacking Oil Skid	Lot	1
		Hydraulic Starter Assembly Skid	Lot	1
		Fuel Gas Duplex Filters Skid	Lot	1
		Liquid Fuel Transfer skid	Lot	1
		Sprint Skid	Lot	1
		LP & HP Water injection Skid	Lot	1
		Water Wash Skid	Lot	1
		CO2 Cylinders Skid	Lot	1
		Motor Control Center (MCC)	Lot	1
		125 VDC Battery System for DC Lube	Lot	1
		24 VDC Battery System for Fire & Gas Module	Lot	1
		24 VDC Battery System for Control System	Lot	2
		Gas & Flame Detection System	Lot	1
		Control Panels (TCP, GCP, MGTB, MTTB)	Lot	1
		GT HMI System	Lot	1
4	Package of Gas Turbine 4	Synchronous Generator Make:Meidensha, 64.5MVA 11.5KV, 50Hz	Lot	1
		Reduction Gear Box Make: Flender Model: TX61/1CV, 1.209:1	Lot	1
		Air Intake House	Lot	1

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Lot No	Lot Description	Lot Details	Mode of Disposal	Quantity
		Acoustic Package Enclosure	Lot	1
		Enclosure Ventilation System	Lot	1
		Exhaust Transition , Diffuser and Stack	Lot	1
		GT Exhaust duct	Lot	1
		Turbine Lube Oil Skid	Lot	1
		Generator Lube & Jacking Oil Skid	Lot	1
		Hydraulic Starter Assembly Skid	Lot	1
		Fuel Gas Duplex Filters Skid	Lot	1
		Liquid Fuel Transfer skid	Lot	1
		Sprint Skid	Lot	1
		LP & HP Water injection Skid	Lot	1
		Water Wash Skid	Lot	1
		CO2 Cylinders Skid	Lot	1
		Motor Control Center (MCC)	Lot	1
		125 VDC Battery System for DC Lube	Lot	1
		24 VDC Battery System for Fire & Gas Module	Lot	1
		24 VDC Battery System for Control System	Lot	2
		Gas & Flame Detection System	Lot	1
		Control Panels (TCP, GCP, MGTB, MTTB)	Lot	1
		GT HMI System	Lot	1
5	Gas Turbine Engines	Gas Turbine LM6000 PC - Sprint Make: GE	Lot	5
6	Engine Container	Container for LM6000PC engine transportation	Lot	1
7	Maintenance Dolly	Maintenance dolly for LM6000PC	Lot	1
8	Special Tools (GT + Generator)	Set of special tools (site) for LM6000PC & Generator	Lot	1
9	Special Tools Steam Turbine	Set of special tools (site) for ST GE Thermodyne	Lot	1
10	Heat Recovery Steam Generator Package 1	HRSG 123TPH ; HP =57Bar ; LP = 7.0Bar Make: IEG Slovakia	Lot	1
		HP Drum	Lot	1
		LP Drum	Lot	1
		Tanks (Feed Water : Flash Tank : Blowdown Tank)	Lot	3
		Diverter Damper	Lot	2
		Guillotine Damper	Lot	2
		Boiler Feed Pumps	Lot	2
		HP Forced Circulation pumps	Lot	2
		LP Forced Circulation pumps	Lot	2
		Condensate Recirculation pumps	Lot	2
		Boiler Protection System (BPS)	Lot	1

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Lot No	Lot Description	Lot Details	Mode of Disposal	Quantity
		Motor Control Center (MCC)	Lot	1
		HRSG Valves, Actuators, PSVs	Lot	1
		Chemical Dosing and Sampling skid set	Lot	1
11	Heat Recovery Steam Generator Package 2	HRSG 122TPH ; HP =57Bar ; LP = 7.0Bar Make: IEG Metka Greece	Lot	1
		HP Drum	Lot	1
		LP Drum	Lot	1
		Tanks (Feed Water : Flash Tank : Blowdown Tank)	Lot	3
		Diverter Damper	Lot	2
		Guillotine Damper	Lot	2
		Boiler Feed Pumps	Lot	2
		HP Forced Circulation pumps	Lot	2
		LP Forced Circulation pumps	Lot	2
		Condensate Recirculation pumps	Lot	2
		Boiler Protection System (BPS)	Lot	1
		Motor Control Center (MCC)	Lot	1
		HRSG Valves, Actuators, PSVs set	Lot	1
		Chemical Dosing and Sampling skid	Lot	1
12	Steam Turbine Package 1	Steam Turbine 27 MW Make: GE Thermodyne Model: 8-9MC9	Lot	1
		Synchronous Generator 35.75MVA ; Make: GE UK FrameA183H4	Lot	1
		Reduction Gear Box	Lot	1
		Steam Condenser	Lot	1
		Debris Filter	Lot	2
		Condensate Extraction Pumps	Lot	2
		Turbine & Generator Lube Oil Skid	Lot	1
		Jacking Oil System skid	Lot	1
		HP Control Oil Pumps Skid	Lot	1
		Turbine Gland Sealing System Skid	Lot	1
		HP/LP Bypass System	Lot	1
		Condenser Vacuum System	Lot	1
		ST HMI	Lot	1
		Motor Control Center (MCC)	Lot	1
		Turbine Exhaust Diffuser	Lot	1
		Control Panels (TCP & GCP)	Lot	1
		110VDC Lube Oil Battery System	Lot	1
		Sampling & Dosing Skid	Lot	1
		Valves and Actuators	Lot	1

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Lot No	Lot Description	Lot Details	Mode of Disposal	Quantity
		Ball Cleaning System Skid	Lot	1
13	Steam Turbine 1 Cooling water System	Open Cooling pumps (Submersible)	Lot	2
		Closed Cooling pumps	Lot	2
		Open Cooling Heat Exchangers	Lot	2
		Open Cooling Bernoulli's Filters	Lot	2
		Condenser Cooling pumps	Lot	2
14	Steam Turbine Package 2	Steam Turbine 26 MW Make: GE Thermodyne Model: 8-11MC9	Lot	1
		Synchronous Generator 33.125MVA Make: Brush Holland DG185ZP-04	Lot	1
		Reduction Gear Box	Lot	1
		Steam Condenser	Lot	1
		Debris Filter	Lot	1
		Condensate Extraction Pumps	Lot	2
		Turbine & Generator Lube Oil Skid	Lot	1
		Jacking Oil System skid	Lot	1
		HP Control Oil Pumps Skid	Lot	1
		Turbine Gland Sealing System Skid	Lot	1
		HP/LP Bypass System	Lot	1
		Condenser Vacuum System	Lot	1
		ST HMI	Lot	1
		Motor Control Center (MCC)	Lot	1
		Turbine Exhaust Diffuser	Lot	1
		Control Panels (TCP & GCP)	Lot	1
		Sampling & Dosing Skid	Lot	1
		ST Valves and Actuators	Lot	1
		Ball Cleaning System Skid	Lot	1
15	Steam Turbine 2 Cooling water System	Condenser Cooling pumps	Lot	2
16	Chiller Package 1	Centrifugal Chiller ; Cooling capacity 1200 Ton Make: McQuay	Lot	1
		Evaporator pump	Lot	1
		Chiller control system	Lot	1
17	Chiller Package 2	Centrifugal Chiller ; Cooling capacity 1200 Ton Make: McQuay	Lot	1
		Evaporator pump	Lot	1
		Chiller control system	Lot	1
18	Chiller Package 3	Centrifugal Chiller ; Cooling capacity 1200 Ton Make: McQuay	Lot	1
		Evaporator pump	Lot	1
		Chiller control system	Lot	1
19	Chiller Package 4	Centrifugal Chiller ; Cooling capacity 1200 Ton Make: McQuay	Lot	1

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Lot No	Lot Description	Lot Details	Mode of Disposal	Quantity
		Evaporator pump	Lot	1
		Chiller control system	Lot	1
20	Chiller Sea Water Pumps	Chiller Sea water Cooling pumps	Lot	3
21	RO Plant (50 m3/hr) Package 1	SWRO feed Pumps	Lot	2
		Multi Media Filters (MMF)	Lot	7
		Sea Water Reverse Osmosis (SWRO) skid	Lot	1
		Brackish Water Reverse Osmosis (BWRO) skid	Lot	1
		Electro De-Ionizer (EDI) Skid	Lot	1
		Control Panels (SWRO, BWRO, EDI)	Lot	1
		Chemical dosing and Clean In Process (CIP) Skid	Lot	1
22	RO Plant (30 m3/hr) Package 2	SWRO feed Pumps (Submersible Type)	Lot	2
		Ultra Filtration (UF) skid	Lot	1
		Multi Media Filters (MMF)	Lot	6
		Sea Water Reverse Osmosis (SWRO) skid	Lot	1
		Brackish Water Reverse Osmosis (BWRO) skid	Lot	1
		Electro De-Ionizer (EDI) Skid	Lot	1
		Control Panels (SWRO , BWRO, EDI)	Lot	1
		Motor Control Center (MCC)	Lot	1
		Chemical dosing and Clean In Process (CIP) Skid	Lot	1
23	Transformers	Step Up Transformer ,115 MVA, 220/11.5/11.5 kV , Oil-Filled Conservator Type, Electro Putere (Romania), 2007.	Lot	2
		Step Up Transformer, 35 MVA, 220/11 kV, Oil-Filled Conservator Type, Getra SpA (Italy), 2008.	Lot	1
		Step Up Transformer , 40 MVA, 220/11 kV, Oil-Filled Conservator Type, XD Jinan Transformer Co. Ltd (China), 2014.	Lot	1
		Auxiliary Transformer, 18.5 MVA, 11.5/6.6 kV, Oil-Filled Conservator Type, Electro Putere (Romania), 2007.	Lot	2
		Auxiliary Transformer, 5 MVA, 11.5/6.6 kV, Oil-Filled Conservator Type, XD Jinan Transformer Co. Ltd (China), 2014.	Lot	2
		Service Transformers, 3.15 MVA, 6.6/0.4 kV, Oil-Filled ONAN Type, France Transfo, 2007.	Lot	4
		Service Transformers, 2.0 MVA, 6.6/0.4 kV, Dry-Type (SCLB10-2000/6.6), XD Jinan Transformer Co. Ltd (China), 2014.	Lot	2
		Transformers Protection Panels	Lot	7
24	11.5KV Switchgear	11.5 kV Switchgear, 17.5 kV Vacuum Type, ABB Breaker 630Amp	Lot	2
		Generator Circuit Breaker Compartment, 17.5KV Switchgear Vacuum Type, Make Areva consist of 4000Amp Vacuum circuit Breaker (Qty 2), VT Truck (Qty 2) and disconnecter (Qty 1)	Lot	2
25	6.6KV Switchgear	6.6kV Switchgear, 17.5 kV Vacuum Type, Make: Siemens consist of 800 Amp VCB (Qty 20), 2500Amp VCB (Qty 03),PT Compartment (Qty 02), Cable Compartment (Qty 01) along with its control and protection system.	Lot	1
		6.6 kV Switchgear, 12 kV Vacuum Type, Make: ABB 630 Amp VCB (Qty 11) along with its control and protection system.	Lot	1

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Lot No	Lot Description	Lot Details	Mode of Disposal	Quantity
26	0.4KV Switchgear	0.4 KV Load Control Centers (14 cubicle consist of breakers and accessories), Make Siemens	Lot	1
		0.4 KV Load Control Centers (13 cubicle consist of breakers and accessories), Make ABB	Lot	1
		Balance of Plant, Motor Control Cubicle (08 cubicle consist of breakers and accessories)	Lot	1
		Chiller, Motor Control Cubicle (03 cubicle consist of breakers and accessories)	Lot	1
27	DC/UPS System	110 VDC System , Make: AEG	Lot	1
		UPS System, 60 kVA, AEG	Lot	2
		UPS System, 40 kVA, Riello	Lot	2
28	Fuel Gas Compressors	Fuel Gas Compressors , GE FS704 Three-Stage Reciprocating Compressor Packages, 15,870 Nm ³ /hr., 2.2 barg Suction / 46 barg Discharge, GE Gemini (Packager Flotech), 2007, with motor and accessories	Lot	4
		Fuel Gas Compressor Control System Cubicles (Qty 05) with Siemens S7-300 PLC, MP277 HMI along with accessories .	Lot	1
29	Gas Receiving Station	Gas Filtration system	Lot	1
		Gas Chromatograph	Lot	1
30	Instrument Air Compressors	Instrument Air Compressors, Ingersoll Rand MM90, 15.6 m ³ /min, 8.5 brag, 2007 (complete Package)	Lot	2
		Instrument Air Compressor, Atlas Copco GA90, 223.3 L/s, 10 brag, 2013 (complete Package)	Lot	1
31	Emergency Diesel Generators	Diesel Generator Sets , Siemens DG1250, 1250 kVA,400 V driven by Cummins KTA-50 diesel engines, 2007.	Lot	2
		Diesel Generator Set , Siemens DG1000, 1,000 kVA, 400 V driven by Cummins QST-30 diesel engine, 2007.	Lot	1
32	Common Cooling water system	Open Cooling Water Pump , Sulzer SM 401-450 Pumps, 2,335 m ³ /hr. Capacity, 38 m Head, 355 kW, 2007.	Lot	1
		Open Cooling Water Pump, KSB SNW 600-650, 2,600 m ³ /hr., 45 m Head, 450 kW, 2010.	Lot	1
		Closed Cooling Water Pumps , Wilo ASP 300B-150/4-T4-CI-EO Horizontal Centrifugal Pumps, 1,240 m ³ /hr. Capacity, 1,485 RPM.	Lot	2
		Plate type Heat Exchangers , APV (Denmark),Type J060, 5.15 MW Heat Duty, 68.64 m ² Heat Transfer Surface Area, 2007.	Lot	4
		Plate type Heat Exchangers, APV (Denmark), Type A085, 20.4 MW Heat Duty, 138.88 m ² Heat Transfer Surface Area, 2007.	Lot	2
		Bernoulli Automatic Filter, Type BSG 300 Self-Cleaning Filter, 10 brag Design Pressure, 270 L Capacity, 2007.	Lot	3
33	DCS System	DCS System Honeywell Experion PKS Release 511.3 DCS with redundant Dell Servers and 5 PCS Process Control System with redundant controllers	Lot	1
34	Firefighting Foam System	Foam firefighting System AFFF 3% 400Liters	Lot	1
		Foam firefighting System AFFF 3% 200Liters	Lot	1