

Preventive Maintenance Schedule - ISPRL PADUR													
Rotary Equipments - ISPRL PADUR													
S.NO.	Type of pump	Tag No.	No.	After every 200 Hrs	250 Hrs. or 2 weeks whichever is earlier #	1000 Hrs. or 3 Months whichever is earlier #	1500 Hrs. or 3 Months whichever is earlier #	After every 2000 hrs	4000 Hrs.or 1 year whichever is earlier #	8000 Hrs. or 2 years whichever is earlier #	16000 Hrs. or 4 years whichever is earlier #	24000 Hrs. or 4 years whichever is earlier #	OISD Standard
I	Sump Pump (Vertical CP)*												OISD-119
1	Crude Transfer pump	002-PM-SM-002A	1		OEM					OEM			
2	Crude Transfer pump	002-PM-SM-002B	1		OEM					OEM			
3	Crude Transfer pump	002-PM-SM-002C	1		OEM					OEM			
4	Crude Transfer pump	002-PM-SM-003A	1		OEM					OEM			
5	Crude Transfer pump	002-PM-SM-003B	1		OEM					OEM			
6	Crude Transfer pump	002-PM-SM-003C	1		OEM					OEM			
7	Crude Transfer pump	002-PM-SM-004A	1		OEM					OEM			
8	Crude Transfer pump	002-PM-SM-004B	1		OEM					OEM			
9	Crude Transfer pump	002-PM-SM-004C	1		OEM					OEM			
10	Crude Transfer pump	002-PM-SM-005A	1		OEM					OEM			
11	Crude Transfer pump	002-PM-SM-005B	1		OEM					OEM			
12	Crude Transfer pump	002-PM-SM-005C	1		OEM					OEM			
13	Seepage Water pump	002-PM-SM-006A	1		OEM					OEM			
14	Seepage Water pump	002-PM-SM-006B	1		OEM					OEM			
15	Seepage Water pump	002-PM-SM-007A	1		OEM					OEM			
16	Seepage Water pump	002-PM-SM-007B	1		OEM					OEM			
17	Seepage Water pump	002-PM-SM-008A	1		OEM					OEM			
18	Seepage Water pump	002-PM-SM-008B	1		OEM					OEM			
19	Seepage Water pump	002-PM-SM-009A	1		OEM					OEM			
20	Seepage Water pump	002-PM-SM-009B	1		OEM					OEM			
21	CBD Pump	002-PM-SM-014	1		B					OEM			
22	CRWS pump	002-PM-SM-020A	1		B					OEM			
23	CRWS pump	002-PM-SM-020B	1		B					OEM			
24	ETP pond pump	002-PM-SM-023A	1		B					OEM			
25	ETP pond pump	002-PM-SM-023B	1		B					OEM			
26	Regeneration pit	002-PM-SM-015	1		B					OEM			
27	Portal Dewatering pump	002-PM-SM-021	1		B					OEM			
28	Portal Dewatering pump	002-PM-SM-022	1		B					OEM			
29	Raw water pump	002-PM-SM-011A	1		B					OEM			
30	Raw water pump	002-PM-SM-011B	1		B					OEM			
31	Fire water makeup pump	002-PM-SM-106	1		B					OEM			
32	Fire water makeup pump	002-PM-SM-107	1		B					OEM			
33	Drinking water pump	002-PM-SM-101A	1		B					OEM			
34	Drinking water pump	002-PM-SM-101B	1		B					OEM			
35	Return activated sludge pump	002-PM-SM-103 A	1		B					OEM			
36	Return activated sludge pump	002-PM-SM-103 B	1		B					OEM			
37	Surplus activated sludge pump	002-PM-SM-102 A	1		B					OEM			
38	Surplus activated sludge pump	002-PM-SM-102 B	1		B					OEM			
II	Vertical Centrifugal Pump												OISD-119
1	LPG pumps	002-PM-CF-010A	1			B			OEM			OEM	
2	LPG pumps	002-PM-CF-010B	1			B			OEM			OEM	
3	Boiler feed water pump	002-PM-00-2343	1			B			OEM			OEM	
4	Boiler feed water pump	002-PM-00-2344	1			B			OEM			OEM	
5	Boiler feed water pump	002-PM-00-2345	1			B			OEM			OEM	

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6	Boiler feed water pump	002-PM-00-2346	1			B			OEM			OEM	
III	Horizontal Centrifugal Pump (Both end supported)												OISD-119
1	Crude booster pump	002-PM-CF-001 A	1			B			B	OEM	OEM		
2	Crude booster pump	002-PM-CF-001 B	1			B			B	OEM	OEM		
3	Crude booster pump	002-PM-CF-001 C	1			B			B	OEM	OEM		
4	Cooling water pump	002-PM-CF-024A	1			B			B	OEM	OEM		
5	Cooling water pump	002-PM-CF-024B	1			B			B	OEM	OEM		
6	Fire water main pump	002-PM-CF-103	1			B			B	OEM	OEM		
7	Fire water engine pump	002-PM-CF-104	1			B			B	OEM	OEM		
8	Fire water engine pump	002-PM-CF-105	1			B			B	OEM	OEM		
IV	Horizontal Centrifugal Pump (End suction)												OISD-119
1	Fire Water (Jockey Pump)	002-PM-CF-101	1			B			B	OEM			
2	Fire Water (Jockey Pump)	002-PM-CF-102	1			B			B	OEM			
3	Boiler Feed Water Makeup Pump	002-PM-00-2347	1			B			B	OEM			
4	Boiler Feed Water Makeup Pump	002-PM-00-2348	1			B			B	OEM			
5	TPI Feed pump	002-PM-CF-110 A	1			B			B	OEM			
6	TPI Feed pump	002-PM-CF-110 B	1			B			B	OEM			
7	DAF Recycle pump	002-PM-CF-111 A	1			B			B	OEM			
8	DAF Recycle pump	002-PM-CF-111 B	1			B			B	OEM			
9	Biological treatment feed pump	002-PM-CF-112 A	1			B			B	OEM			
10	Biological treatment feed pump	002-PM-CF-112 B	1			B			B	OEM			
11	Treated effluent pump	002-PM-CF-113 A	1			B			B	OEM			
12	Treated effluent pump	002-PM-CF-113 B	1			B			B	OEM			
13	Wet slop oil transfer pump	002-PM-CF-114 A	1			B			B	OEM			
14	Wet slop oil transfer pump	002-PM-CF-114 B	1			B			B	OEM			
15	Dry slop oil transfer pump	002-PM-CF-106 A	1			B			B	OEM			
16	Dry slop oil transfer pump	002-PM-CF-106 B	1			B			B	OEM			
17	OWS transfer pump	002-PM-CF-107 A	1			B			B	OEM			
18	OWS transfer pump	002-PM-CF-107 B	1			B			B	OEM			
19	Belt press filter feed pump	002-PM-00-104	1			B			B	OEM			
20	Caustic LYE unloading /transfer pump	002-PM-CF-108 A	1			B			B	OEM			
21	Caustic LYE unloading /transfer pump	002-PM-CF-108 B	1			B			B	OEM			
22	Sulphuric acid unloading/transfer pump	002-PM-CF-109 A	1			B			B	OEM			
23	Sulphuric acid unloading/transfer pump	002-PM-CF-109 B	1			B			B	OEM			
24	Fuel oil unloading pump	002-PM-CF-002	1			B			B	OEM			
25	Fuel oil forwarding pump	002-PM-CF-003A	1			B			B	OEM			
26	Fuel oil forwarding pump	002-PM-CF-003B	1			B			B	OEM			
	Chlorine booster pump (not in use)	002-PM-CF-117A	1			B			B	OEM			
	Chlorine booster pump (not in use)	002-PM-CF-117B	1			B			B	OEM			

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V	Positive dispalcement (diaphragm) pumps												OISD-119
1	Alum Solution Dosing Pump-A	002-PM-DF-101 A	1			B			OEM	OEM			
2	Alum Solution Dosing Pump-B	002-PM-DF-101 B	1			B			OEM	OEM			
3	DOPE Solution Dosing Pump-A	002-PM-DF-102 A	1			B			OEM	OEM			
4	DOPE Solution Dosing Pump-B	002-PM-DF-102 B	1			B			OEM	OEM			
5	Nutrient Solution Dosing Pump- A	002-PM-DF-103 A	1			B			OEM	OEM			
6	Nutrient Solution Dosing Pump- B	002-PM-DF-103 B	1			B			OEM	OEM			
7	DWPE (Oily) Solution Dosing Pump-A	002-PM-DF-104 A	1			B			OEM	OEM			
8	DWPE (Oily) Solution Dosing Pump-B	002-PM-DF-104 B	1			B			OEM	OEM			
9	DWPE (Bio) Solution Dosing Pump-A	002-PM-DF-105 A	1			B			OEM	OEM			
10	DWPE (Bio) Solution Dosing Pump-B	002-PM-DF-105 B	1			B			OEM	OEM			
11	Caustic Solution Dosing Pump-A	002-PM-DF-106 A	1			B			OEM	OEM			
12	Caustic Solution Dosing Pump-B	002-PM-DF-106 B	1			B			OEM	OEM			
13	Caustic Solution Dosing Pump-C	002-PM-DF-106 C	1			B			OEM	OEM			
14	Sulphuric Acid Solution Dosing Pump-A	002-PM-DF-107 A	1			B			OEM	OEM			
15	Sulphuric Acid Solution Dosing Pump-B	002-PM-DF-107 B	1			B			OEM	OEM			
16	Sulphuric Acid Solution Dosing Pump-C	002-PM-DF-107 C	1			B			OEM	OEM			
17	HP Dosing Pump motor for the Boiler-I	002-PM-00-2335	1			B			OEM	OEM			
18	HP Dosing Pump motor for the Boiler-I	002-PM-00-2336	1			B			OEM	OEM			
19	HP Dosing Pump motor for the Boiler-II	002-PM-00-2337	1			B			OEM	OEM			
20	HP Dosing Pump motor for the Boiler-II	002-PM-00-2338	1			B			OEM	OEM			
21	LP Dosing Pump motor for O2 Scavenging	002-PM-00-2339	1			B			OEM	OEM			
22	LP Dosing Pump motor for O2 Scavenging	002-PM-00-2340	1			B			OEM	OEM			
23	LP Dosing Pump motor for PH Boosting	002-PM-00-2341	1			B			OEM	OEM			
24	LP Dosing Pump motor for PH Boosting	002-PM-00-2343	1			B			OEM	OEM			
VI	Gear Pumps												OISD-119
1	CTP lube oil pump	002-PA-GR-1235A	1		B				OEM	OEM	OEM	OEM	
2	CTP lube oil pump	002-PA-GR-1235B	1		B				OEM	OEM	OEM	OEM	
3	CTP lube oil pump	002-PA-GR-1236A	1		B				OEM	OEM	OEM	OEM	
4	CTP lube oil pump	002-PA-GR-1236B	1		B				OEM	OEM	OEM	OEM	
5	CTP lube oil pump	002-PA-GR-1237A	1		B				OEM	OEM	OEM	OEM	
6	CTP lube oil pump	002-PA-GR-1237B	1		B				OEM	OEM	OEM	OEM	
7	CTP lube oil pump	002-PA-GR-1335A	1		B				OEM	OEM	OEM	OEM	
8	CTP lube oil pump	002-PA-GR-135B	1		B				OEM	OEM	OEM	OEM	
9	CTP lube oil pump	002-PA-GR-1336A	1		B				OEM	OEM	OEM	OEM	
10	CTP lube oil pump	002-PA-GR-1336B	1		B				OEM	OEM	OEM	OEM	
11	CTP lube oil pump	002-PA-GR-1337A	1		B				OEM	OEM	OEM	OEM	
12	CTP lube oil pump	002-PA-GR-1337B	1		B				OEM	OEM	OEM	OEM	
13	CTP lube oil pump	002-PA-GR-1435A	1		B				OEM	OEM	OEM	OEM	
14	CTP lube oil pump	002-PA-GR-1435B	1		B				OEM	OEM	OEM	OEM	
15	CTP lube oil pump	002-PA-GR-1436A	1		B				OEM	OEM	OEM	OEM	
16	CTP lube oil pump	002-PA-GR-1436B	1		B				OEM	OEM	OEM	OEM	
17	CTP lube oil pump	002-PA-GR-1437A	1		B				OEM	OEM	OEM	OEM	
18	CTP lube oil pump	002-PA-GR-1437B	1		B				OEM	OEM	OEM	OEM	
19	CTP lube oil pump	002-PA-GR-1535A	1		B				OEM	OEM	OEM	OEM	

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20	CTP lube oil pump	002-PA-GR-1535B	1		B				OEM	OEM	OEM	OEM	
21	CTP lube oil pump	002-PA-GR-1536A	1		B				OEM	OEM	OEM	OEM	
22	CTP lube oil pump	002-PA-GR-1536B	1		B				OEM	OEM	OEM	OEM	
23	CTP lube oil pump	002-PA-GR-1537A	1		B				OEM	OEM	OEM	OEM	
24	CTP lube oil pump	002-PA-GR-1537B	1		B				OEM	OEM	OEM	OEM	
VII	Screw pump												OISD-119
1	Bio-sludge transfer pump	002-PM-00-101 A	1		B				OEM	OEM	OEM	OEM	OEM
2	Bio-sludge transfer pump	002-PM-00-101 B	1		B				OEM	OEM	OEM	OEM	OEM
3	Oily & chemical sludge transfer pump	002-PM-00-102 A	1		B				OEM	OEM	OEM	OEM	OEM
4	Oily & chemical sludge transfer pump	002-PM-00-102 B	1		B				OEM	OEM	OEM	OEM	OEM
5	Thickened oily & chemical sludge transfer pump	002-PM-00-103 A	1		B				OEM	OEM	OEM	OEM	OEM
6	Thickened oily & chemical sludge transfer pump	002-PM-00-103 B	1		B				OEM	OEM	OEM	OEM	OEM
VIII	Agitators												OISD 122
1	Flash mixing tank mixer	002-MM-00-101	1	B		B		B	OEM	OEM	OEM		
2	Flocculator tank mixer	002-MM-00-102	1	B		B		B	OEM	OEM	OEM		
3	pH adjustment tank mixer	002-MM-00-111	1	B		B		B	OEM	OEM	OEM		
4	Thickened oily & chemical sludge sump mixer	002-MM-00-103	1	B		B		B	OEM	OEM	OEM		
5	Agitator for Alum solution dosing tank	002-MM-00-104 A	1	B		B		B	OEM	OEM	OEM		
6	Agitator for Alum solution dosing tank	002-MM-00-104 B	1	B		B		B	OEM	OEM	OEM		
7	Agitator for DOPE solution dosing tank	002-MM-00-105 A	1	B		B		B	OEM	OEM	OEM		
8	Agitator for DOPE solution dosing tank	002-MM-00-105 B	1	B		B		B	OEM	OEM	OEM		
9	Agitator for Nutrient solution dosing tank	002-MM-00-106 A	1	B		B		B	OEM	OEM	OEM		
10	Agitator for Nutrient solution dosing tank	002-MM-00-106 B	1	B		B		B	OEM	OEM	OEM		
11	Agitator fot DWPE(oily) solution dosing tank	002-MM-00-107 A	1	B		B		B	OEM	OEM	OEM		
12	Agitator fot DWPE(oily) solution dosing tank	002-MM-00-107 B	1	B		B		B	OEM	OEM	OEM		
13	Agitator fot DWPE(bio) solution dosing tank	002-MM-00-108 A	1	B		B		B	OEM	OEM	OEM		
14	Agitator fot DWPE(bio) solution dosing tank	002-MM-00-108 B	1	B		B		B	OEM	OEM	OEM		
15	Agitator for caustic solution dosing tank	002-MM-00-109 A	1	B		B		B	OEM	OEM	OEM		
16	Agitator for caustic solution dosing tank	002-MM-00-109 B	1	B		B		B	OEM	OEM	OEM		
17	Agitator for sulphuric acid dosing tank	002-MM-00-110 A	1	B		B		B	OEM	OEM	OEM		
18	Agitator for sulphuric acid dosing tank	002-MM-00-110 B	1	B		B		B	OEM	OEM	OEM		
19	HP dosing Agitator motor for Boiler-I	002-PM-00-2352	1	B		B		B	OEM	OEM	OEM		
20	HP dosing Agitator motor for Boiler-II	002-PM-00-2351	1	B		B		B	OEM	OEM	OEM		
21	Agitator Motor for the PH Boosting	002-PM-00-2349	1	B		B		B	OEM	OEM	OEM		
22	Agitator Motor for the O2 Scavenging	002-PM-00-2350	1	B		B		B	OEM	OEM	OEM		
23	Agitator Motor for Softner Regenration Tank	002-PM-00-2362	1	B		B		B	OEM	OEM	OEM		
24	SBR Decanter	002-PM-TL-101 A	1	B		B		B	OEM	OEM	OEM		
25	SBR Decanter	002-PM-TL-101 B	1	B		B		B	OEM	OEM	OEM		
26	Ground winch motor	WM-2235	1	B		B		B	OEM	OEM	OEM		
27	Sludge removal screw	002-PM-CF-116	1	B		B		B	OEM	OEM	OEM		
28	Oily & chemical sludge thickener mechanism	002-EM-00-105	1	B		B		B	OEM	OEM	OEM		

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IX	Fire water Engine												
1	Engine	002-PM-CF-104	1		B	OEM	B		OEM	OEM			OISD 127
2	Engine	002-PM-CF-105	1		B	OEM	B		OEM	OEM			
X	Blower												
1	SBR Blower	002-KM-TL-101 A	1	B		B		B	OEM	OEM	OEM		OISD 122
2	SBR Blower	002-KM-TL-101 B	1	B		B		B	OEM	OEM	OEM		
3	FD fan for Burner of Boiler	002-PM-00-2360	1	B		B		B	OEM	OEM	OEM		
4	FD fan for Burner of Boiler	002-PM-00-2361	1	B		B		B	OEM	OEM	OEM		
5	Substation pressurization blower	AVPL/P&V/M/01A	1	B		B		B	OEM	OEM	OEM		
6	Substation pressurization blower	AVPL/P&V/M/01B	1	B		B		B	OEM	OEM	OEM		
7	Main control room HVAC blower	-	1	B		B		B	OEM	OEM	OEM		
8	Main control room HVAC blower	-	1	B		B		B	OEM	OEM	OEM		
9	Switch yard HVAC blower	-	1	B		B		B	OEM	OEM	OEM		
10	Switch yard HVAC blower	-	1	B		B		B	OEM	OEM	OEM		
11	Cooling tower fan	002-LM-00-001A	1	B		B		B	OEM	OEM	OEM		
12	Cooling tower fan	002-LM-00-001B	1	B		B		B	OEM	OEM	OEM		
XI	LP Air compressor												OISD 120
1	LP Air compressor	002-KM-RP-001A	1			B				OEM		OEM	
2	LP Air compressor	002-KM-RP-001B	1			B				OEM		OEM	
3	DAF Compressor	002-KM-RP-101 A	1			B				OEM		OEM	
4	DAF Compressor	002-KM-RP-101 B	1			B				OEM		OEM	
XII	Volvo Fire Tender												As per OISD 142 / OEM Recommendation
1	Fire tender (Volvo make)		1						OEM				
XIII	Belt press filter	002-EM-00-104	1										As per OEM Recommendation
XIV	Oily & chemical sludge Centrifuge	002-EM-00-106	1										As per OEM Recommendation
XV	DAF Skimmer	002-PM-CF-115	1										As per OEM Recommendation

B		Bidder scope
OEM		Original Equipment Manufacturer scope (bidder to assist in the activities to be carried out by OEM)
		NOT APPLICABLE
		PM SCHEDULE TO BE DECIDED AS PER OEM RECOMMENDATIONS
# All activity under the mentioned frequency shall be carried out as per OISD standards/OEM recommendation		
* ISPRL shall arrange to remove the pump for strainer cleaning, if required		

Static Equipments - ISPRL PADUR								
S. No.	Description	Qty.	Visual Inspection	Cleaning	Greasing	Calibration	Overhauling	Testing & certification
1	Chain Pulley Blocks	19	B	B	B	N/A	OEM	OEM
2	EOT/HOT Cranes	3	B	B	B	N/A	OEM	B
3	PSV (Rule18)	12	N/A	N/A	N/A	B	OEM	B
4	PSV/TSV	160	N/A	N/A	N/A			
5	MOV	106	B	B	B	N/A	B	N/A
6	Ball Valve/Gate valve/Globe valve 0.5" to 32"	1600 approx.	B	B	As per requirement	N/A		N/A
7	Plug Valves 3/4" to 16"	15	B	B		N/A		N/A
8	Sump tank (CBD drum)	1			N/A	N/A		
9	Bucket strainer	45	B	B	N/A	N/A	N/A	N/A
10	Bucket strainer (Crude booster pump)	3	B		N/A	N/A	N/A	N/A
11	Cartridge Filters (Crude transfer pump)	24	B		N/A	N/A	N/A	N/A
12	Air filter	4	B	B	N/A	N/A	N/A	N/A
13	Heat Exchanger for crude heating	2	N/A		N/A	N/A	N/A	
14	Heat Exchanger - CTP lube oil cooling	12	N/A		N/A	N/A	N/A	

B		Bidder's scope
OEM		Original Equipment Manufacturer scope (bidder to assist in the activities to
		NOT APPLICABLE
# All activity under the mentioned frequency shall be carried out as per OISD standards/OEM recon		

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As per OISD 203/ OEM Recommendation/ SOP
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As per OISD 171/ OEM Recommendation/ SOP
As per OISD 171/ OEM Recommendation/ SOP

o be carried out by OEM)
nmendation

ISPRL Padur - PM Schedule for Electrical Equipment

Electrical list of Equipment

Sl.No.	Area	Tag number	Description	Weekly#	Fortnightly#	Monthly#	Quaerterly#	Half yearly#	Yearly#	3 Yearly#	Remarks	Reference
1	DG Room	DG-01	1250 kVA Diesel generator- Generator	B	B	B		B				OISD-137
			1010 kVA Diesel generator- Engine	B	B				OEM	OEM		OISD-127
Motors												
2	ETP	002-PM-CF-108B	Caustic Lye Unloading / Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
3	ETP	002-PM-CF-108A	Caustic Lye Unloading / Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
4	ETP	002-PM-CF-109B	Sulfuric Acid Unloading / Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
5	ETP	002-PM-CF-109A	Sulfuric Acid Unloading / Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
6	ETP	002-PM-CF-117A	Booster Pump-A			B	B	B	OEM		Motor	OISD-137
7	ETP	002-PM-CF-117B	Booster Pump-B			B	B	B	OEM		Motor	OISD-137
8	ETP	002-PM-CF-113B	Treated Effluent Pump-B			B	B	B	OEM		Motor	OISD-137
9	ETP	002-PM-CF-113A	Treated Effluent Pump-A			B	B	B	OEM		Motor	OISD-137
10	ETP	002-PM-CF-112A	Biological Treatment Feed Pump-A			B	B	B	OEM		Motor	OISD-137
11	ETP	002-PM-CF-112B	Biological Treatment Feed Pump-B			B	B	B	OEM		Motor	OISD-137
12	ETP	002-PM-CF-111B	DAF Recycle Pump-B			B	B	B	OEM		Motor	OISD-137
13	ETP	002-PM-CF-111A	DAF Recycle Pump-A			B	B	B	OEM		Motor	OISD-137
14	ETP	002-PM-00-102A	Oily & Chemical Sludge Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
15	ETP	002-PM-00-102B	Oily & Chemical Sludge Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
16	ETP	002-PM-00-103A	Thickened Oily & Chemical Sludge Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
17	ETP	002-PM-00-103B	Thickened Oily & Chemical Sludge Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
18	ETP	002-PM-00-101B	Bio-Sludge Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
19	ETP	002-PM-00-101A	Bio-Sludge Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
20	ETP	002-PM-CF-114B	Wet Slope Oil Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
21	ETP	002-PM-CF-114A	Wet Slope Oil Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
22	ETP	002-PM-CF-107A	OWS Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
23	ETP	002-PM-CF-107B	OWS Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
24	ETP	002-PM-CF-106A	Dry Slope Oil Transfer Pump-A			B	B	B	OEM		Motor	OISD-137
25	ETP	002-PM-CF-106B	Dry Slope Oil Transfer Pump-B			B	B	B	OEM		Motor	OISD-137
26	ETP	002-PM-CF-115	DAF Mechanism - Skimmer			B	B	B	OEM		Motor	OISD-137
27	ETP	002-MM-00-101	Flash Mixing Tank Mixer			B	B	B	OEM		Motor	OISD-137
28	ETP	002-MM-00-102	Flocculator Tank Mixer			B	B	B	OEM		Motor	OISD-137
29	ETP	002-MM-00-111	pH Adjustment Tank Mixer			B	B	B	OEM		Motor	OISD-137
30	ETP	002-PM-SM-023A	Treated Effluent Pumps			B	B	B	OEM		Motor	OISD-137
31	ETP	002-PM-SM-023B	Treated Effluent Pumps			B	B	B	OEM		Motor	OISD-137
32	ETP	002-PM-SM-020A	CRWS Pumps			B	B	B	OEM		Motor	OISD-137
33	ETP	002-PM-CF-110B	TPI Feed Pump-B			B	B	B	OEM		Motor	OISD-137
34	ETP	002-PM-CF-110A	TPI Feed Pump-A			B	B	B	OEM		Motor	OISD-137
35	ETP	002-EM-00-106	Oily & Chemical Sludge Centrifuge			B	B	B	OEM		Motor	OISD-137
36	ETP	002-EM-00-105	Oily & Chemical Sludge Thickener Mechanism			B	B	B	OEM		Motor	OISD-137
37	ETP	002-EM-00-104	Belt Filter Press - Mechanism			B	B	B	OEM		Motor	OISD-137
38	ETP	002-EM-00-104	Belt Filter Press - Mechanism			B	B	B	OEM		Motor	OISD-137
39	ETP	002-PM-DF-103A	Nutrient Dosing Solution Pump			B	B	B	OEM		Motor	OISD-137
40	ETP	002-PA-DF-103B	Nutrient Dosing Solution Pump			B	B	B	OEM		Motor	OISD-137
41	ETP	002-PM-DF-104A	DWPE Solution Dosing			B	B	B	OEM		Motor	OISD-137
42	ETP	002-PM-DF-104B	DWPE Solution Dosing			B	B	B	OEM		Motor	OISD-137
43	ETP	002-PM-DF-102A	Dope Solution Dosing			B	B	B	OEM		Motor	OISD-137
44	ETP	002-PM-DF-102B	Dope Solution Dosing			B	B	B	OEM		Motor	OISD-137
45	ETP	002-MM-00-105A	Agitator For Dope			B	B	B	OEM		Motor	OISD-137

46	ETP	002-MM-00-105B	Agitator For Dope			B	B	B	OEM		Motor	OISD-137
47	ETP	002-MM-00-107A	Agitator For DWPE Solution dosing Tank			B	B	B	OEM		Motor	OISD-137
48	ETP	002-MM-00-107B	Agitator For DWPE Solution dosing Tank			B	B	B	OEM		Motor	OISD-137
49	ETP	022-MM-00-106A	Agitator For Nutrient Solution Dosing Tank			B	B	B	OEM		Motor	OISD-137
50	ETP	022-MM-00-106B	Agitator For Nutrient Solution Dosing Tank			B	B	B	OEM		Motor	OISD-137
51	ETP	002-PM-DF-101A	Alum Solution Dosing Pump			B	B	B	OEM		Motor	OISD-137
52	ETP	002-PM-DF-101B	Alum Solution Dosing Pump			B	B	B	OEM		Motor	OISD-137
53	ETP	002-MM-00-103	Thickened Oily Sludge Sump			B	B	B	OEM		Motor	OISD-137
54	ETP	002-KM-TL-101A	Air Compressor			B	B	B	OEM		Motor	OISD-137
55	ETP	002-KM-TL-101B	Air Compressor			B	B	B	OEM		Motor	OISD-137
56	ETP	002-KM-TL-101A	SBR Blower			B	B	B	OEM		Motor	OISD-137
57	ETP	002-KM-TL-101A	SBR Blower			B	B	B	OEM		Motor	OISD-137
58	ETP	002-MM-00-104A	Agitator For Alum Solution Dosing			B	B	B	OEM		Motor	OISD-137
59	ETP	002-MM-00-104B	Agitator For Alum Solution Dosing			B	B	B	OEM		Motor	OISD-137
60	ETP	002-MM-00-109A	Agitator For Caustic Solution Dosing			B	B	B	OEM		Motor	OISD-137
61	ETP	002-MM-00-109B	Agitator For Caustic Solution Dosing			B	B	B	OEM		Motor	OISD-137
62	ETP	002-MM-00-108A	DWPE Solution Dosing Agitator			B	B	B	OEM		Motor	OISD-137
63	ETP	002-MM-00-108B	DWPE Solution Dosing Agitator			B	B	B	OEM		Motor	OISD-137
64	ETP	002-MM-00-110A	Agitator For Sulfuric Acid Dosing			B	B	B	OEM		Motor	OISD-137
65	ETP	002-MM-00-110B	Agitator For Sulfuric Acid Dosing			B	B	B	OEM		Motor	OISD-137
66	ETP	002-PM-DF-107A	Sulfuric Acid Solution Dosing			B	B	B	OEM		Motor	OISD-137
67	ETP	002-PM-DF-107B	Sulfuric Acid Solution Dosing			B	B	B	OEM		Motor	OISD-137
68	ETP	002-PM-DF-107C	Sulfuric Acid Solution Dosing			B	B	B	OEM		Motor	OISD-137
69	ETP	002-PM-DF-105A	DWPE Solution Dosing			B	B	B	OEM		Motor	OISD-137
70	ETP	002-PM-DF-105A	DWPE Solution Dosing			B	B	B	OEM		Motor	OISD-137
71	Portal Dewatering	002-PM-SM-21	De-Watering Pump A Motor			B	B	B	OEM		Motor	OISD-137
72	Portal Dewatering	002-PM-SM-22	De-Watering Pump B Motor			B	B	B	OEM		Motor	OISD-137
73	Cooling Water Area	002-PM-CF-24A	Cooling Water Recirculating Pump			B	B	B	OEM		Motor	OISD-137
74	Cooling Water Area	002-PM-CF-24B	Cooling Water Recirculating Pump			B	B	B	OEM		Motor	OISD-137
75	Cooling Water Area	002-LM-00-001A	Cooling Water Fan			B	B	B	OEM		Motor	OISD-137
76	Cooling Water Area	002-LM-00-001A	Cooling Water Fan			B	B	B	OEM		Motor	OISD-137
77	Flare	WM-2235	Winch Motor			B	B	B	OEM		Motor	OISD-137
78	ETP Seepage Water Tank	002-PM-SM-23A	Treated Effluent Pump			B	B	B	OEM		Motor	OISD-137
79	ETP Seepage Water Tank	002-PM-SM-23B	Treated Effluent Pump			B	B	B	OEM		Motor	OISD-137
80	ETP Seepage Water Tank	002-PM-SM-20A	CRWS Pumps			B	B	B	OEM		Motor	OISD-137
81	ETP Seepage Water Tank	002-PM-SM-20B	CRWS Pumps			B	B	B	OEM		Motor	OISD-137
82	ETP Seepage Water Tank	002-PM-SM-14	CBD			B	B	B	OEM		Motor	OISD-137
83	Fire Station	FVNR	Foam Loading /Unloading			B	B	B	OEM		Motor	OISD-137
84	Sub Station Roof	S-1	Siren Motor			B	B	B	OEM		Motor	OISD-137
85	Boiler area	002-PM-SM-00-2343	Feed Water Pump Motor			B	B	B	OEM		Motor	OISD-137
86	Boiler area	002-PM-SM-00-2344	Feed Water Pump Motor			B	B	B	OEM		Motor	OISD-137
87	Boiler area	002-PM-SM-00-2345	Feed Water Pump Motor			B	B	B	OEM		Motor	OISD-137
88	Boiler area	002-PM-SM-00-2346	Feed Water Pump Motor			B	B	B	OEM		Motor	OISD-137
89	Boiler area	002-PM-00-2360	FD Fan for Burner			B	B	B	OEM		Motor	OISD-137
90	Boiler area	002-PM-00-2361	FD Fan for Burner			B	B	B	OEM		Motor	OISD-137
91	Boiler area	002-PM-00-2347	Feed Water Makeup Pump Motor			B	B	B	OEM		Motor	OISD-137
92	Boiler area	002-PM-00-2348	Feed Water Makeup Pump Motor			B	B	B	OEM		Motor	OISD-137
93	Boiler area	002-PM-00-2341	LP Dosing Ph Pump Motor			B	B	B	OEM		Motor	OISD-137
94	Boiler area	002-PM-00-2343	LP Dosing Ph Pump Motor			B	B	B	OEM		Motor	OISD-137
95	Boiler area	002-PM-00-2339	LP Dosing O2 Scavenging Pump Motor			B	B	B	OEM		Motor	OISD-137
96	Boiler area	002-PM-00-2340	LP Dosing O2 Scavenging Pump Motor			B	B	B	OEM		Motor	OISD-137
97	Boiler area	002-PM-00-2351	Hp Dosing Agitator Motor			B	B	B	OEM		Motor	OISD-137
98	Boiler area	002-PM-00-2352	Hp Dosing Agitator Motor			B	B	B	OEM		Motor	OISD-137

99	Boiler area	002-PM-00-2335	Dosing Pump Motor			B	B	B	OEM		Motor	OISD-137
100	Boiler area	002-PM-00-2336	Dosing Pump Motor			B	B	B	OEM		Motor	OISD-137
101	Boiler area	002-PM-00-2337	Dosing Pump Motor			B	B	B	OEM		Motor	OISD-137
102	Boiler area	002-PM-00-2338	Dosing Pump Motor			B	B	B	OEM		Motor	OISD-137
103	Boiler area	002-PM-00-2368	Regeneration Tank Motor			B	B	B	OEM		Motor	OISD-137
104	Boiler area	002-PM-SM-015	Regeneration Pit Pump Motor			B	B	B	OEM		Motor	OISD-137
105	Boiler area	002-PM-00-2349	Ph Boosting Agitator Motor			B	B	B	OEM		Motor	OISD-137
106	Boiler area	002-PM-00-2350	Ph Boosting Agitator Motor			B	B	B	OEM		Motor	OISD-137
107	Boiler area	Diesel Inject Motor Boiler 1	Diesel Inject Motor Boiler 1			B	B	B	OEM		Motor	OISD-137
108	Boiler area	Diesel Inject Motor Boiler 2	Diesel Inject Motor Boiler 2			B	B	B	OEM		Motor	OISD-137
109	Boiler area	002-PM-00-2363	Soot Blower Motor			B	B	B	OEM		Motor	OISD-137
110	Boiler area	002-PM-00-2364	Soot Blower Motor			B	B	B	OEM		Motor	OISD-137
111	PU - A	002-PM-SM-005 A	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
112	PU - A	002-PM-SM-005 B	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
113	PU - A	002-PM-SM-005 C	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
114	PU - A	002-PM-SM-009A	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
115	PU - A	002-PM-SM-009B	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
116	PU - B	002-PM-SM-004 A	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
117	PU - B	002-PM-SM-004 B	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
118	PU - B	002-PM-SM-004 C	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
119	PU - B	002-PM-SM-008A	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
120	PU - B	002-PM-SM-008B	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
121	PU - C	002-PM-SM-003 A	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
122	PU - C	002-PM-SM-003 B	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
123	PU - C	002-PM-SM-003 C	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
124	PU - C	002-PM-SM-007A	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
125	PU - C	002-PM-SM-007B	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
126	PU - D	002-PM-SM-002 A	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
127	PU - D	002-PM-SM-002 B	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
128	PU - D	002-PM-SM-002 C	Crude Oil Transfer Pump Motor			B	B	B	OEM		Motor	OISD-137
129	PU - D	002-PM-SM-006A	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
130	PU - D	002-PM-SM-006B	Seepage Water Pump Motor			B	B	B	OEM		Motor	OISD-137
131	PU - A	002-PA-SM-2A	Lop-1			B	B	B	OEM		Motor	OISD-137
132	PU - A	002-PA-SM-2A	Lop-2			B	B	B	OEM		Motor	OISD-137
133	PU - A	002-PA-SM-2B	Lop-1			B	B	B	OEM		Motor	OISD-137
134	PU - A	002-PA-SM-2B	Lop-2			B	B	B	OEM		Motor	OISD-137
135	PU - A	002-PA-SM-2C	Lop-1			B	B	B	OEM		Motor	OISD-137
136	PU - A	002-PA-SM-2C	Lop-2			B	B	B	OEM		Motor	OISD-137
137	PU - B	002-PA-SM-3A	Lop1			B	B	B	OEM		Motor	OISD-137
138	PU - B	002-PA-SM-3A	Lop-2			B	B	B	OEM		Motor	OISD-137
139	PU - B	002-PA-SM-3B	Lop-1			B	B	B	OEM		Motor	OISD-137
140	PU - B	002-PA-SM-3B	Lop-2			B	B	B	OEM		Motor	OISD-137
141	PU - B	002-PA-SM-3C	Lop-1			B	B	B	OEM		Motor	OISD-137
142	PU - B	002-PA-SM-3C	Lop-2			B	B	B	OEM		Motor	OISD-137
143	PU - C	002-PA-SM-4A	Lop-1			B	B	B	OEM		Motor	OISD-137
144	PU - C	002-PA-SM-4A	Lop-2			B	B	B	OEM		Motor	OISD-137
145	PU - C	002-PA-SM-4B	Lop-1			B	B	B	OEM		Motor	OISD-137
146	PU - C	002-PA-SM-4B	Lop-2			B	B	B	OEM		Motor	OISD-137
147	PU - C	002-PA-SM-4C	Lop-1			B	B	B	OEM		Motor	OISD-137
148	PU - C	002-PA-SM-4C	Lop-2			B	B	B	OEM		Motor	OISD-137
149	PU - D	002-PA-SM-5A	Lop-1			B	B	B	OEM		Motor	OISD-137
150	PU - D	002-PA-SM-5A	Lop-2			B	B	B	OEM		Motor	OISD-137
151	PU - D	002-PA-SM-5B	Lop-1			B	B	B	OEM		Motor	OISD-137

152	PU - D	002-PA-SM-5B	Lop-2			B	B	B	OEM		Motor	OISD-137
153	PU - D	002-PA-SM-5C	Lop-1			B	B	B	OEM		Motor	OISD-137
154	PU - D	002-PA-SM-5C	Lop-2			B	B	B	OEM		Motor	OISD-137
155	Diesel Tank Area	002-PM-CF-003 A	Diesel Tank Forwarding Pump Motor			B	B	B	OEM		Motor	OISD-137
156	Diesel Tank Area	002-PM-CF-003 B	Diesel Tank Pump Motor			B	B	B	OEM		Motor	OISD-137
157	Diesel Tank Area	002-PM-CF-002	Diesel Tank Loading Pump Motor			B	B	B	OEM		Motor	OISD-137
158	Diesel Tank Area	Foam Pump Motor - A	Foam Pump Motor			B	B	B	OEM		Motor	OISD-137
159	Diesel Tank Area	Foam Pump Motor - B	Foam Pump Motor			B	B	B	OEM		Motor	OISD-137
160	L.P.G Munded Bullet Area	002-PM-CF-010 A	L.P.G Bullet Pump Motor			B	B	B	OEM		Motor	OISD-137
161	L.P.G Munded Bullet Area	002-PM-CF-010 B	L.P.G Bullet Pump Motor			B	B	B	OEM		Motor	OISD-137
162	Inst. Air Compressor Shed	002-KA-RP-001 A	Instrument Air Compressor			B	B	B	OEM		Motor	OISD-137
163	Inst. Air Compressor Shed	002-KA-RP-001 B	Instrument Air Compressor			B	B	B	OEM		Motor	OISD-137
164	Fire Water Pump House	002-PM-CF-103	HT Main Fire Water Pump Motor			B	B	B	OEM		Motor	OISD-137
165	Fire Water Pump House	002-PM-CF-101	LT Jockey Motor			B	B	B	OEM		Motor	OISD-137
166	Fire Water Pump House	002-PM-CF-102	LT Jockey Motor			B	B	B	OEM		Motor	OISD-137
167	Raw Water Pump House	002-PM-SM-101 A	Drinking Water Pump Motor			B	B	B	OEM		Motor	OISD-137
168	Raw Water Pump House	002-PM-SM-101 B	Drinking Water Pump Motor			B	B	B	OEM		Motor	OISD-137
169	Raw Water Pump House	002-PM-SM-011 A	Raw Water Pump Motor			B	B	B	OEM		Motor	OISD-137
170	Raw Water Pump House	002-PM-SM-011 B	Raw Water Pump Motor			B	B	B	OEM		Motor	OISD-137
171	Raw Water Pump House	002-PM-SM-106	Fire Water Makeup Pump Motor			B	B	B	OEM		Motor	OISD-137
172	Raw Water Pump House	002-PM-SM-107	Fire Water Makeup Pump Motor			B	B	B	OEM		Motor	OISD-137
173	Booster Shed	004-PA-CF-001 A	Booster Pump Motor			B	B	B	OEM		Motor	OISD-137
174	Booster Shed	004-PA-CF-001 B	Booster Pump Motor			B	B	B	OEM		Motor	OISD-137
175	Booster Shed	004-PA-CF-001 C	Booster Pump Motor			B	B	B	OEM		Motor	OISD-137
176	CBD Area	002-PM-SM-014	CBD Pump Motor			B	B	B	OEM		Motor	OISD-137
177	Metering shed	-	Density Meter Pump Motor (AEC 14909)			B	B	B	OEM		Motor	OISD-137
Transformers / Reactors/ Bus -Duct												
1	Switchyard	TR - 001	Power Transformer – 1 (110kv/6.9kv)	B			B	B	OEM	OEM	TR	OISD-137
2	Switchyard	TR - 002	Power Transformer – 2 (110kv/6.9kv)	B			B	B	OEM	OEM	TR	OISD-137
3	Main Substation	TR - 101	Distribution Transformer – 1 (6.9kv/0.433kv)	B			B	B	OEM	OEM	TR	OISD-137
4	Main Substation	TR - 102	Distribution Transformer – 2 (6.9kv/0.433kv)	B			B	B	OEM	OEM	TR	OISD-137
5	ETP Substation	TR - 201	Distribution Transformer – 3 (6.9kv/0.433kv)	B			B	B	OEM	OEM	TR	OISD-137
6	ETP Substation	TR - 202	Distribution Transformer – 4 (6.9kv/0.433kv)	B			B	B	OEM	OEM	TR	OISD-137
7	Main Substation	LTR - 01	Sub-Station (Lighting TR 01)	B			B	B	OEM	OEM	LTR	OISD-137
8	Main Substation	LTR - 02	Sub-Station (Lighting TR 02)	B			B	B	OEM	OEM	LTR	OISD-137
9	Main Substation	ELTR - 01	Sub-Station (Emergency Lighting TR 03)	B			B	B	OEM	OEM	ELTR	OISD-137
10	Main Substation	ELTR - 02	Sub-Station (Emergency Lighting TR 04)	B			B	B	OEM	OEM	ELTR	OISD-137
11	ETP-MCC Room	LTR - 01	ETP (Lighting TR 01)	B			B	B	OEM	OEM	LTR	OISD-137
12	ETP-MCC Room	LTR - 02	ETP (Lighting TR 02)	B			B	B	OEM	OEM	LTR	OISD-137
13	ETP-MCC Room	ELTR - 01	ETP (Emergency Lighting TR 03)	B			B	B	OEM	OEM	ELTR	OISD-137
14	ETP-MCC Room	ELTR - 02	ETP (Emergency Lighting TR 04)	B			B	B	OEM	OEM	ELTR	OISD-137
15	Substation	CAP - 01	Capacitor Bank 1	B			B	B	OEM	OEM	CB	OISD-137
16	Substation	CAP - 02	Capacitor Bank 2	B			B	B	OEM	OEM	CB	OISD-137
17	L.P.G Mounted bullet area	TRU -1	Cathodic Protection	B			B	B	OEM	OEM	CP	OISD-137
18	ETP Substation	TRU -2	Cathodic Protection	B			B	B	OEM	OEM	PANEL	OISD-137
UPS/Invertor												
1	MCR (UPS Room)	UPS - 01 65kVA	Ups-MCR	B		B			OEM		UPS	OISD-137
2	MCR (UPS Room)	UPS - 02 65kVA	Ups-MCR	B		B			OEM		UPS	OISD-137
3	ETP-Control Room	UPS - 01 5kVA	Ups-ETP	B		B			OEM		UPS	OISD-137
4	ETP-Control room	UPS - 02 5kVA	Ups-ETP	B		B			OEM		UPS	OISD-137
Battery Charger / DC Board / Battery Bank / Capacitor Bank												
5	Switchyard	FCBC 01	Battery Charger	B					OEM		FCBC	OISD-137
6	Switchyard	FCBC 02	Battery Charger	B					OEM		FCBC	OISD-137

7	Main Substation	FCBC 01	Battery Charger	B					OEM		FCBC	OISD-137
8	Main Substation	FCBC 02	Battery Charger	B					OEM		FCBC	OISD-137
9	ETP Substation	FCBC 01	Battery Charger	B					OEM		FCBC	OISD-137
10	ETP Substation	FCBC 02	Battery Charger	B					OEM		FCBC	OISD-137
11	MCR (Battery room)	Battery bank	Ups Battery Bank -MCR For 2*65kva Ups				B	OEM			BATTERY CELL	OISD-137
12	ETP Control Room(Battery room)	Battery bank	Ups Battery Bank - ETP For 2*5kva Ups				B	OEM			BATTERY CELL	OISD-137
13	Main Substation	Battery bank	FCBC- Battery Bank				B	OEM			BATTERY CELL	OISD-137
14	ETP Substation	Battery bank	FCBC- Battery Bank				B	OEM			BATTERY CELL	OISD-137
15	Switchyard	Battery bank	Switchyard - FCBC				B	OEM			BATTERY CELL	OISD-137
Lighting Fixtures And Junction Boxes (Plant And Building)												
1	Raw Water Area	HM - 01	High Mast - 01	B		B		B	OEM		HM	OISD-137
2	Diesel Tank Area	HM - 02	High Mast - 02	B		B		B	OEM		HM	OISD-137
3	Control Room Area	HM - 03	High Mast - 03	B		B		B	OEM		HM	OISD-137
4	PUD Area	HM - 04	High Mast - 04	B		B		B	OEM		HM	OISD-137
5	Boiler area	HM - 05	High Mast - 05	B		B		B	OEM		HM	OISD-137
6	PUB Area	HM - 06	High Mast - 06	B		B		B	OEM		HM	OISD-137
7	PUA Area	HM - 07	High Mast - 07	B		B		B	OEM		HM	OISD-137
8	ETP OWS Pond Area	HM - 08	High Mast - 08	B		B		B	OEM		HM	OISD-137
9	Metering shed	HM - 09	High Mast - 09	B		B		B	OEM		HM	OISD-137
10	Watch tower - 01	Search light -01	Search Light	B		B		B	OEM		LIGHT	OISD-137
11	Watch tower - 02	Search light -02	Search Light	B		B		B	OEM		LIGHT	OISD-137
12	Watch tower - 03	Search light -03	Search Light	B		B		B	OEM		LIGHT	OISD-137
13	Watch tower - 04	Search light -04	Search Light	B		B		B	OEM		LIGHT	OISD-137
14	Watch tower - 05	Search light -05	Search Light	B		B		B	OEM		LIGHT	OISD-137
15	Watch tower - 06	Search light -06	Search Light	B		B		B	OEM		LIGHT	OISD-137
16	Normal Light - All Plant	Normal Light	Normal Light - All Plant	B		B		B	OEM		LIGHT	OISD-137
17	Emergency Light- All Plant	Emergency Light	Emergency Light- All Plant	B		B		B	OEM		LIGHT	OISD-137
18	Solar and Street Light - All Plant	Solar - Street Light	All Plant	B		B		B	OEM		LIGHT	OISD-137
Switch Board & Panel												
1	Switchyard	EHT 46 Metering Board	110 kV ISPRL Main Meter Panel	B		B		OEM	OEM		PANEL	OISD-137
2	Switchyard	HT - 001 SWBD	6.6kv Panel	B		B		OEM	OEM		PANEL	OISD-137
3	Switchyard	HT - 002 SWBD	6.6kv Panel	B		B		OEM	OEM		PANEL	OISD-137
4	Switchyard	HT - CRP Panel	Control Relay Panel - 110kv Tr and Line	B		B		OEM	OEM		PANEL	OISD-137
5	Switchyard	HT - RTCC 001	Panel	B		B		OEM	OEM		PANEL	OISD-137
6	Switchyard	HT - RTCC 002	Panel	B		B		OEM	OEM		PANEL	OISD-137
7	Switchyard	LT AB 001	Panel	B		B		OEM	OEM		PANEL	OISD-137
8	Switchyard	EHT - 001 SF6 Breaker	110kv Line Incoming SF6 Breaker	B		B		OEM	OEM		BREAKER	OISD-137
9	Switchyard	EHT - 002 SF6 Breaker	110kv Tr-001 SF6 Breaker	B		B		OEM	OEM		BREAKER	OISD-137
10	Switchyard	EHT - 003 SF6 Breaker	110kv Tr-002 SF6 Breaker	B		B		OEM	OEM		BREAKER	OISD-137
11	Switchyard	110kV CTs	110kv Current Transformer	B		B		OEM	OEM		CT	OISD-137
12	Switchyard	110kV PTs	110kv Potential Transformer	B		B		OEM	OEM		PT	OISD-137
13	Switchyard	110kV LAs	110kv Lightning Arrestors	B		B		OEM	OEM		LA	OISD-137
14	Switchyard	110kV GOS	Group Operated Switches	B		B		OEM	OEM		GOS	OISD-137
15	Switchyard	NGR 001	Neutral Grounding Resister 001	B		B		OEM	OEM		NGR	OISD-137
16	Switchyard	NGR 002	Neutral Grounding Resister 002	B		B		OEM	OEM		NGR	OISD-137
17	Switchyard	DC 001	Data Concentrator	B		B		OEM	OEM		PANEL	OISD-137
18	Substation	HT - 101	6.6kv Panel	B		B		OEM	OEM		PANEL	OISD-137
19	Fire Water Pump House	HT -301	6.6kv Panel	B		B		OEM	OEM		PANEL	OISD-137
20	Substation	PC - 101	PCC Panel	B		B		OEM	OEM		PANEL	OISD-137
21	Substation	EPC - 101	EPC Panel	B		B		OEM	OEM		PANEL	OISD-137
22	Substation	MCC - 101	MCC Panel	B		B		OEM	OEM		PANEL	OISD-137
23	Substation	AB - 101	Aux. DB Panel	B		B		OEM	OEM		PANEL	OISD-137
24	Substation	AB - 103	Aux. DB Panel	B		B		OEM	OEM		PANEL	OISD-137

25	Substation	LB 101	ELDB & LDB Panel	B		B		OEM	OEM		PANEL	OISD-137
26	Substation	ELB 101	ELDB & LDB Panel	B		B		OEM	OEM		PANEL	OISD-137
27	Fire Water Pump House	MCC 301	Aux. DB Panel	B		B		OEM	OEM		PANEL	OISD-137
28	ETP Substation	PC - 201	PCC Panel	B		B		OEM	OEM		PANEL	OISD-137
29	ETP Substation	AB - 201	EPC Panel	B		B		OEM	OEM		PANEL	OISD-137
30	ETP Substation	LB - 201	ELDB & LDB Panel	B		B		OEM	OEM		PANEL	OISD-137
31	ETP Substation	ELB - 201	ELDB & LDB Panel	B		B		OEM	OEM		PANEL	OISD-137
32	Substation	DC 101	HT Data Concentrator	B		B		OEM	OEM		PANEL	OISD-137
33	Substaiton	DC 102	LT Data Concentrator	B		B		OEM	OEM		PANEL	OISD-137
34	Substation	SUBSTATION	Pressurization Room Panel	B		B		OEM	OEM		PANEL	OISD-137
35	Boiler area	BMS - 01	Boiler Control Panel	B		B		OEM	OEM		PANEL	OISD-137
36	Boiler area	BMS - 02	Boiler Control Panel	B		B		OEM	OEM		PANEL	OISD-137
37	MCR HVAC Room	HVAC 01	MCC Panel-415V	B		B		OEM	OEM		PANEL	OISD-137
38	FWPH Engine Control Panel	ECP - 104	Engine Control Panel 104	B		B		OEM	OEM		Panel	OISD-137
39	FWPH Engine Control Panel	ECP - 105	Engine Control Panel 105	B		B		OEM	OEM		Panel	OISD-137
40	All Plant Area PA System	PA - system	PA - System	B		B		OEM	OEM		PA	OISD-137
41	All Plant Area Telephone	Telephone - system	Telephone - System (Field Call Station)	B		B		OEM	OEM		Telephone	OISD-137
42	Plant Area	Buildings	Sub station building / Switch gear room	B		B		OEM	OEM		Building	OISD-137
43	Plant Area	IP System	Flame proof / weather protection	B		B		OEM	OEM		LIGHT	OISD-137
44	Plant Area	FA System	Fire alram ssytem (Eletrcal circuit)	B		B		OEM	OEM		PROTECTION	OISD-137
Field Equipments												
1	PU - A	002-MOV-1501	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
2	PU - A	002-MOV-1502	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
3	PU - A	002-MOV-1503	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
4	PU - A	002-MOV-1504	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
5	PU - A	002-MOV-1505	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
6	PU - A	002-MOV-1506	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
7	PU - A	002-MOV-1507	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
8	PU - A	002-MOV-1508	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
9	PU - A	002-MOV-1509	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
10	PU - A	002-MOV-1510	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
11	PU - A	002-MOV-1511	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
12	PU - A	002-MOV-1512	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
13	PU - A	002-MOV-1513	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
14	PU - A	002-MOV-1514	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
15	PU - A	002-MOV-1707	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
16	PU - A	002-MOV-1708	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
17	PU - A	002-MOV-1903	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
18	PU - A	002-MOV-1904	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
19	PU - B	002-MOV-1401	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
20	PU - B	002-MOV-1402	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
21	PU - B	002-MOV-1403	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
22	PU - B	002-MOV-1404	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
23	PU - B	002-MOV-1405	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
24	PU - B	002-MOV-1406	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
25	PU - B	002-MOV-1407	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
26	PU - B	002-MOV-1408	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
27	PU - B	002-MOV-1409	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
28	PU - B	002-MOV-1410	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
29	PU - B	002-MOV-1411	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
30	PU - B	002-MOV-1412	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
31	PU - B	002-MOV-1413	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation
32	PU - B	002-MOV-1414	Motor Operated Valve				B		OEM		MOV	As perOEM recommendation

[illegible]

86	ETP Metering Shed Area	002-MOV-1107	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
87	ETP Metering Shed Area	002-MOV-1108	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
88	ETP Metering Shed Area	002-MOV-1109	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
89	ETP Metering Shed Area	002-MOV-1110	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
90	ETP Metering Shed Area	002-MOV-1112	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
91	ETP Metering Shed Area	002-MOV-1113	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
92	ETP Metering Shed Area	002-MOV-1116	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
93	ETP Metering Shed Area	002-MOV-1117	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
94	ETP Metering Shed Area	002-MOV-1119	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
95	ETP Metering Shed Area	002-MOV-1120	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
96	ETP Metering Shed Area	002-MOV-1122	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
97	ETP Metering Shed Area	002-MOV-1123	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
98	ETP Metering Shed Area	005-MOV-1125	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
99	ETP Metering Shed Area	002-MOV-1126	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
100	ETP Metering Shed Area	002-MOV-1127	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
101	ETP Metering Shed Area	002-MOV-1128	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
102	ETP Metering Shed Area	002-MOV-1129	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
103	ETP Metering Shed Area	002-MOV-1130	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
104	ETP Metering Shed Area	002-MOV-1131	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
105	ETP Metering Shed Area	Pipe line Main MOV(2901)	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
106	ETP Metering Shed Area	Pig receiver MOV(2902)	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
107	Boiler area	002-MOV-2335	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
108	Boiler area	002-MOV-2336	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
109	Boiler area	002-MOV-2337	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
110	Boiler area	002-MOV-2338	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
111	Boiler area	002-MOV-2339	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
112	Boiler area	002-MOV-2340	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
113	Boiler area	002-MOV-2341	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
114	Boiler area	002-MOV-2342	Motor Operated Valve					B	OEM		MOV	As perOEM recommendation
Earthing System												
1	Substation	EEP.1015.18	Earth Pit						B	OEM	Earth	OISD-137
2	Substation	ELP.1015.3	Earth Pit						B	OEM	Earth	OISD-137
3	Substation	ELP.1015.2	Earth Pit						B	OEM	Earth	OISD-137
4	Substation	EEP.1015.15	Earth Pit						B	OEM	Earth	OISD-137
5	Substation	EEP.1015.16	Earth Pit						B	OEM	Earth	OISD-137
6	Substation	EEP.1015.17	Earth Pit						B	OEM	Earth	OISD-137
7	Substation	ELP.1015.1	Earth Pit						B	OEM	Earth	OISD-137
8	Substation	EEP.1015.1	Earth Pit						B	OEM	Earth	OISD-137
9	Substation	EEP.1015.2	Earth Pit						B	OEM	Earth	OISD-137
10	Substation	EEP.1015.4	Earth Pit						B	OEM	Earth	OISD-137
11	Substation	EEP.1015.5	Earth Pit						B	OEM	Earth	OISD-137
12	Substation	EEP.1015.6	Earth Pit						B	OEM	Earth	OISD-137
13	Substation	EEP.1015.8	Earth Pit						B	OEM	Earth	OISD-137
14	Substation	EEP.1015.9	Earth Pit						B	OEM	Earth	OISD-137
15	Substation	EEP.1015.11	Earth Pit						B	OEM	Earth	OISD-137
16	Substation	EEP.1015.12	Earth Pit						B	OEM	Earth	OISD-137
17	Substation	EEP.1015.13	Earth Pit						B	OEM	Earth	OISD-137
18	Substation	EEP.1015.14	Earth Pit						B	OEM	Earth	OISD-137
19	Substation	ELP.1015.4	Earth Pit						B	OEM	Earth	OISD-137
20	Substation	EEP.1015.24	Earth Pit						B	OEM	Earth	OISD-137
21	Substation	EEP.1015.23	Earth Pit						B	OEM	Earth	OISD-137
22	Substation	ELP.1015.5	Earth Pit						B	OEM	Earth	OISD-137
23	Substation	ELP.1015.8	Earth Pit						B	OEM	Earth	OISD-137

24	Substation	ELP.1015.7	Earth Pit					B	OEM		Earth	OISD-137
25	Substation	ELP.1015.6	Earth Pit					B	OEM		Earth	OISD-137
26	Substation	EEP.1015.22	Earth Pit					B	OEM		Earth	OISD-137
27	Substation	EEP.1015.21	Earth Pit					B	OEM		Earth	OISD-137
28	Substation	EEP.1015.20	Earth Pit					B	OEM		Earth	OISD-137
29	Substation	EEP.1015.3	Earth Pit					B	OEM		Earth	OISD-137
30	Substation	EEP.1015.10	Earth Pit					B	OEM		Earth	OISD-137
31	Substation	EEP.1015.7	Earth Pit					B	OEM		Earth	OISD-137
32	Substation	EEP.1015.19	Earth Pit					B	OEM		Earth	OISD-137
33	Control room	IEP.1019.1	Earth Pit					B	OEM		Earth	OISD-137
34	Control room	IEP.1019.1	Earth Pit					B	OEM		Earth	OISD-137
35	Control room	EEP.1019.2	Earth Pit					B	OEM		Earth	OISD-137
36	Control room	IEP.1019.3	Earth Pit					B	OEM		Earth	OISD-137
37	Control room	IEP.1019.4	Earth Pit					B	OEM		Earth	OISD-137
38	Control room	ELP.1019.2	Earth Pit					B	OEM		Earth	OISD-137
39	Control room	IEP.1019.10	Earth Pit					B	OEM		Earth	OISD-137
40	Control room	ELP.1019.1	Earth Pit					B	OEM		Earth	OISD-137
41	Control room	ELP.1019.3	Earth Pit					B	OEM		Earth	OISD-137
42	Control room	IEP.1019.5	Earth Pit					B	OEM		Earth	OISD-137
43	Control room	IEP.1019.6	Earth Pit					B	OEM		Earth	OISD-137
44	Control room	ELP.1019.4	Earth Pit					B	OEM		Earth	OISD-137
45	Control room	IEP.1019.7	Earth Pit					B	OEM		Earth	OISD-137
46	Control room	IEP.1019.8	Earth Pit					B	OEM		Earth	OISD-137
47	Control room	EEP.1019.3	Earth Pit					B	OEM		Earth	OISD-137
48	Control room	EEP.1019.4	Earth Pit					B	OEM		Earth	OISD-137
49	Control room	IEP.1019.9	Earth Pit					B	OEM		Earth	OISD-137
50	Control room	EEP.1019.10	Earth Pit					B	OEM		Earth	OISD-137
51	Fire water	ELP.1011.1	Earth Pit					B	OEM		Earth	OISD-137
52	Fire water	ELP.1011.2	Earth Pit					B	OEM		Earth	OISD-137
53	Raw water	ELP.1012.1	Earth Pit					B	OEM		Earth	OISD-137
54	Raw water	ELP.1012.2	Earth Pit					B	OEM		Earth	OISD-137
55	LPG	ELP.1017.1	Earth Pit					B	OEM		Earth	OISD-137
56	LPG	ELP.1017.2	Earth Pit					B	OEM		Earth	OISD-137
57	Air Compressor	ELP.1021.1	Earth Pit					B	OEM		Earth	OISD-137
58	Air Compressor	ELP.1021.2	Earth Pit					B	OEM		Earth	OISD-137
59	Boiler	ELP.1022.2	Earth Pit					B	OEM		Earth	OISD-137
60	Diesel	EEP.1016.1	Earth Pit					B	OEM		Earth	OISD-137
61	Non-Process Bldg	ELP.1014.1	Earth Pit					B	OEM		Earth	OISD-137
62	Non-Process Bldg	ELP.1014.2	Earth Pit					B	OEM		Earth	OISD-137
63	Non-Process Bldg	ELP.1014.3	Earth Pit					B	OEM		Earth	OISD-137
64	Non-Process Bldg	ELP.1014.4	Earth Pit					B	OEM		Earth	OISD-137
65	Non-Process Bldg	ELP.1014.5	Earth Pit					B	OEM		Earth	OISD-137
66	work Shope	ELP.1018.1	Earth Pit					B	OEM		Earth	OISD-137
67	LPG	EEP.1017.1	Earth Pit					B	OEM		Earth	OISD-137
68	Boiler	ELP.1022.1	Earth Pit					B	OEM		Earth	OISD-137
69	Boiler	EEP.1022.1	Earth Pit					B	OEM		Earth	OISD-137
70	Fire water	EEP.1011.1	Earth Pit					B	OEM		Earth	OISD-137
71	Nitrogen unit	EEP-1020.1	Earth Pit					B	OEM		Earth	OISD-137
72	PU-C	EEP.1007.1	Earth Pit					B	OEM		Earth	OISD-137
73	PU-C	EEP.1007.2	Earth Pit					B	OEM		Earth	OISD-137
74	Heat Exchanger	EEP.1008.1	Earth Pit					B	OEM		Earth	OISD-137
75	Flare	ELP.1010.1	Earth Pit					B	OEM		Earth	OISD-137
76	Flare	ELP.1010.2	Earth Pit					B	OEM		Earth	OISD-137

77	PipeRack	EEP.1004.1	Earth Pit					B	OEM		Earth	OISD-137
78	PU-A	EEP.1002.1	Earth Pit					B	OEM		Earth	OISD-137
79	Crude Booster	EEP.1023.1	Earth Pit					B	OEM		Earth	OISD-137
80	Crude Booster	EEP.1023.2	Earth Pit					B	OEM		Earth	OISD-137
81	Water pond	EEP.1025.1	Earth Pit					B	OEM		Earth	OISD-137
82	ETP Sleeper	EEP.1029.1	Earth Pit					B	OEM		Earth	OISD-137
83	ETP Chemical Bldg	EP.4	Earth Pit					B	OEM		Earth	OISD-137
84	ETP Chemical Bldg	EP.6	Earth Pit					B	OEM		Earth	OISD-137
85	ETP Chemical Bldg	EP.12	Earth Pit					B	OEM		Earth	OISD-137
86	ETP Chemical Bldg	LEP.3	Earth Pit					B	OEM		Earth	OISD-137
87	ETP Chemical Bldg	LEP.4	Earth Pit					B	OEM		Earth	OISD-137
88	ETP Chemical Bldg	EP.7	Earth Pit					B	OEM		Earth	OISD-137
89	ETP Chemical Bldg	EP.8	Earth Pit					B	OEM		Earth	OISD-137
90	ETP Chemical Bldg	EP.9	Earth Pit					B	OEM		Earth	OISD-137
91	ETP Chemical Bldg	LEP.1	Earth Pit					B	OEM		Earth	OISD-137
92	ETP Chemical Bldg	LEP.2	Earth Pit					B	OEM		Earth	OISD-137
93	ETP Chemical Bldg	NE.6	Earth Pit					B	OEM		Earth	OISD-137
94	ETP Chemical Bldg	NE.1	Earth Pit					B	OEM		Earth	OISD-137
95	ETP Chemical Bldg	NE.2	Earth Pit					B	OEM		Earth	OISD-137
96	ETP Chemical Bldg	NE.3	Earth Pit					B	OEM		Earth	OISD-137
97	ETP Chemical Bldg	NE.4	Earth Pit					B	OEM		Earth	OISD-137
98	ETP Chemical Bldg	EP.1	Earth Pit					B	OEM		Earth	OISD-137
99	ETP Chemical Bldg	EP.2	Earth Pit					B	OEM		Earth	OISD-137
100	ETP Chemical Bldg	EP.3	Earth Pit					B	OEM		Earth	OISD-137
101	ETP Chemical Bldg	EP.5	Earth Pit					B	OEM		Earth	OISD-137
102	ETP Chemical Bldg	EP.10	Earth Pit					B	OEM		Earth	OISD-137
103	ETP Chemical Bldg	EP.11	Earth Pit					B	OEM		Earth	OISD-137
104	ETP Chemical Bldg	LEP.5	Earth Pit					B	OEM		Earth	OISD-137
105	ETP Chemical Bldg	LEP.6	Earth Pit					B	OEM		Earth	OISD-137
106	ETP Chemical Bldg	LEP.7	Earth Pit					B	OEM		Earth	OISD-137
107	ETP Chemical Bldg	LEP.8	Earth Pit					B	OEM		Earth	OISD-137
108	ETP Chemical Bldg	NE.5	Earth Pit					B	OEM		Earth	OISD-137
109	ETP Chemical Bldg	NE.7	Earth Pit					B	OEM		Earth	OISD-137
110	ETP Chemical Bldg	NE.8	Earth Pit					B	OEM		Earth	OISD-137
111	ETP Chemical Bldg	NE.9	Earth Pit					B	OEM		Earth	OISD-137
112	ETP Chemical Bldg	NE.10	Earth Pit					B	OEM		Earth	OISD-137
113	ETP Chemical Bldg	NE.11	Earth Pit					B	OEM		Earth	OISD-137
114	ETP Chemical Bldg	NE.12	Earth Pit					B	OEM		Earth	OISD-137
115	Trafo-1 Neutral Earth Pit 1	Pit No. : 1	Earth Pit					B	OEM		Earth	OISD-137
116	Trafo-1 Neutral Earth Pit 2	Pit No. : 2	Earth Pit					B	OEM		Earth	OISD-137
117	Trafo-1 Body Earth Pit 1	Pit No. : 3	Earth Pit					B	OEM		Earth	OISD-137
118	Trafo-1 Body Earth Pit 2	Pit No. : 4	Earth Pit					B	OEM		Earth	OISD-137
119	Trafo-2 Neutral Earth Pit 1	Pit No. : 5	Earth Pit					B	OEM		Earth	OISD-137
120	Trafo-2 Neutral Earth Pit 2	Pit No. : 6	Earth Pit					B	OEM		Earth	OISD-137
121	Trafo-2 Body Earth Pit 1	Pit No. : 7	Earth Pit					B	OEM		Earth	OISD-137
122	Trafo-2 Body Earth Pit 2	Pit No. : 8	Earth Pit					B	OEM		Earth	OISD-137
123	Trafo 1 LA R-PH	Pit No. : 9	Earth Pit					B	OEM		Earth	OISD-137
124	Trafo 1 LA Y-PH	Pit No. : 10	Earth Pit					B	OEM		Earth	OISD-137
125	Trafo 1 LA B-PH	Pit No. : 11	Earth Pit					B	OEM		Earth	OISD-137
126	Trafo 2 LA R-PH	Pit No. : 12	Earth Pit					B	OEM		Earth	OISD-137
127	Trafo 2 LA Y-PH	Pit No. : 13	Earth Pit					B	OEM		Earth	OISD-137
128	Trafo 2 LA B-PH	Pit No. : 14	Earth Pit					B	OEM		Earth	OISD-137
129	Line Bay LA R-PH	Pit No. : 15	Earth Pit					B	OEM		Earth	OISD-137

130	Line Bay LA Y-PH	Pit No. : 16	Earth Pit					B	OEM		Earth	OISD-137
131	Line Bay LA B-PH	Pit No. : 17	Earth Pit					B	OEM		Earth	OISD-137
132	Gantry Tower Earth Pit	Pit No. : 18	Earth Pit					B	OEM		Earth	OISD-137
133	Control Room Earth Pit 1	Pit No. : 19	Earth Pit					B	OEM		Earth	OISD-137
134	Control Room Earth Pit 2	Pit No. : 20	Earth Pit					B	OEM		Earth	OISD-137
135	LM Tower Earth Pit	Pit No. : 21	Earth Pit					B	OEM		Earth	OISD-137
136	KPTCL Tower Earth Pit 1	Pit No. : 22	Earth Pit					B	OEM		Earth	OISD-137
137	KPTCL Tower Earth Pit 2	Pit No. : 23	Earth Pit					B	OEM		Earth	OISD-137
138	KPTCL PT Earth Pit R-PH	Pit No. : 24	Earth Pit					B	OEM		Earth	OISD-137
139	KPTCL PT Earth Pit y-PH	Pit No. : 25	Earth Pit					B	OEM		Earth	OISD-137
140	KPTCL PT Earth Pit B-PH	Pit No. : 26	Earth Pit					B	OEM		Earth	OISD-137
141	Fencing Earth Pit 1	Pit No. : 27	Earth Pit					B	OEM		Earth	OISD-137
142	Fencing Earth Pit 2	Pit No. : 28	Earth Pit					B	OEM		Earth	OISD-137
143	Fencing Earth Pit 3	Pit No. : 29	Earth Pit					B	OEM		Earth	OISD-137
144	Fencing Earth Pit 4	Pit No. : 30	Earth Pit					B	OEM		Earth	OISD-137
145	Fencing Earth Pit 5	Pit No. : 31	Earth Pit					B	OEM		Earth	OISD-137
146	Fencing Earth Pit 6	Pit No. : 32	Earth Pit					B	OEM		Earth	OISD-137
147	Fencing Earth Pit 7	Pit No. : 33	Earth Pit					B	OEM		Earth	OISD-137
148	Fencing Earth Pit 8	Pit No. : 34	Earth Pit					B	OEM		Earth	OISD-137
149	All Plant	Lightning Protection	Lightening protection					B	OEM		Earth	OISD-137
HVAC and AC System												
1	Switchyard (HVAC Room)	HVAC - 001	Heating Ventilation & Air Conditioning - 01					OEM			HVAC	As perOEM recommendation
2	Switchyard (HVAC Room)	HVAC - 002	Heating Ventilation & Air Conditioning - 02					OEM			HVAC	As perOEM recommendation
3	MCR (HVAC Room)	HVAC - 01	Heating Ventilation & Air Conditioning - 03					OEM			HVAC	As perOEM recommendation
4	MCR (HVAC Room)	HVAC - 02	Heating Ventilation & Air Conditioning - 04					OEM			HVAC	As perOEM recommendation
5	MCR (HVAC room)	CFU	Chemical Filter Units					OEM			CFU	As perOEM recommendation
6	Substation	CF - 01	Pressurization - 01					OEM			PRE	As perOEM recommendation
7	Substation	CF - 02	Pressurization - 02					OEM			PRE	As perOEM recommendation
8	Admin.Bulding	AC	Air Conditioner (A/C)					OEM			AC	As perOEM recommendation
9	ETP-Control Room	AC	Air Conditioner (A/C)					OEM			AC	As perOEM recommendation
10	Fire Station	AC	Air Conditioner (A/C)					OEM			AC	As perOEM recommendation
11	Main Gate - Process Gate	AC	Air Conditioner (A/C)					OEM			AC	As perOEM recommendation
12	Substation HMI Room	AC	Air Conditioner (A/C)					OEM			AC	As perOEM recommendation
13	Analyser Shelters	AC	Air Conditioner (A/C)					OEM			AC	As perOEM recommendation

B		Bidder scope
OEM		Original Equipment Manufacturer scope (bidder to assist in the activities to be carried out by OEM)
		NOT APPLICABLE
# All activity under the mentioned frequency shall be carried out as per OISD standards/OEM recommendation		

Instrumentation - ISPRL, Padur										
Sl.No.	Area	Tag number	OEM	QTY	Quaerterly	Half yearly	Yearly	3 Yearly	Calibration by	As per OISD / SOP
1	All plant area	ON/OFF Valve	Koso	32				OEM	N.A.	OISD 153
2	All plant area	ON/OFF Valve	Rotex	9				OEM	N.A.	
3	All plant area	Control Valve	Fisher	33				OEM	B (Y)	
4	All plant area	Control Valve	Tyco valves & controls india pvt. Ltd.	6				OEM	B (Y)	
5	All plant area	Control Valve	Forbes Marshall	15				OEM	B (Y)	
6	All plant area	Control Valve	Flowserve	10				OEM	B (Y)	
7	All plant area	Air Regulators	Placka Instruments India Pvt. Ltd.	107		B			B (Y)	As per SOP
8	All plant area	Level transmitters(Servo Gauge)	Honeywell Enraf	9				OEM	As per OEM	OISD 153
9	All plant area	TFMS(Servo Gauge)	SBEM Pvt. Ltd.	20				OEM	As per OEM	OISD 153
10	All plant area	Level transmitters	Rosemount	24		B		OEM	NABL approved vendor	OISD 153
11	All plant area	Level transmitters	Honeywell	23		B		OEM	NABL approved vendor	OISD 153
12	All plant area	Level transmitters	E & H	16		B		OEM	During Planned Shutdown	OISD 153
13	All plant area	Level transmitters	Siemens	33		B		OEM	During Planned Shutdown	OISD 153
14	All plant area	Level transmitters	Rock Sensor	10		B		OEM	During Planned Shutdown	OISD 153
15	All plant area	Pressure Transmitter	Rosemount	164		B		OEM	NABL approved vendor	OISD 153
16	All plant area	Pressure Transmitter	Yokogawa	2		B		OEM	NABL approved vendor	OISD 153
17	All plant area	Flow Transmitter (CTMS)/Master Flow Meter	Rockwin Flow	1		B		OEM	FCRI	OISD 153
18	All plant area	Flow Transmitter (ultrasonic) /CTMS	Thermofisher scientific	3		B		OEM	OEM	OISD 153
19	All plant area	Flow Transmitter	Krohne	2		B		OEM	During Planned Shutdown	OISD 153
20	All plant area	Flow Transmitter	Yokogawa	7		B		OEM	NABL approved vendor	OISD 153
21	All plant area	Flow Transmitter	Rosemount	49		B		OEM	NABL approved vendor	OISD 153
22	All plant area	Flow Transmitter	Sick	1		B		OEM	NABL approved vendor	OISD 153
23	All plant area	SOV	Rotex	70				OEM	During Planned Shutdown	OISD 153
24	All plant area	Gas Detectors	Crowcon/Respo Products	36		B		OEM	OEM/Authorized vendor	OISD 153
25	All plant area	Gas Detectors	MSA/Respo Products	10		B		OEM	OEM/Authorized vendor	OISD 153
26	All plant area	Resistance temperature detector	Altop	25		B	OEM		NABL approved vendor	OISD 153
27	All plant area	Resistance temperature detector	EDAC engineering ltd.	6		B	OEM		NABL approved vendor	OISD 153
28	All plant area	Resistance temperature detector	Pyroelectric	45		B	OEM		NABL approved vendor	OISD 153
29	All plant area	Temperature gauge	Mass	33			OEM		NABL approved vendor	OISD 153
30	All plant area	Temperature gauge	General	16			OEM		NABL approved vendor	OISD 153
31	All plant area	Pressure Gauge	General	142			OEM		NABL approved vendor	OISD 153
32	All plant area	Pressure Gauge	Wika	104			OEM		NABL approved vendor	OISD 153
33	All plant area	Pressure Gauge	Forbes Mersal	108			OEM		NABL approved vendor	OISD 153
34	All plant area	ER Transmitter (Corrosion monitoring system)	Metal Sample	1				OEM	N.A.	OISD 153
35	All plant area	Temperature Transmitter	Rosemount	137		B		OEM	NABL approved vendor	OISD 153
36	All plant area	Vibration Sensor	Bently nevada	12				OEM	N.A.	OISD 153
37	All plant area	Thermocouple	Pyroelectric	3				OEM	During Planned Shutdown by NABL approved vendor	OISD 153
38	All plant area	Smoke & Heat Detector	Honeywell	196		B		OEM	N.A.	OISD 153
39	All plant area	MCP	Honeywell	37		B		OEM	N.A.	OISD 153
40	All plant area	MCP	Baliga	60		B		OEM	N.A.	OISD 153
41	All plant area	Flot Type	Nivo Control	2			B		N.A.	OISD 153
42	All plant area	Level gauge	Blissa Anad	7		B		OEM	N.A.	OISD 153
43	All plant area	Level gauge	General	5		B		OEM	N.A.	OISD 153
44	All plant area	Level gauge	Techro Pune	21		B		OEM	N.A.	OISD 153
45	All plant area	Viscometer	Micromotion	1				OEM	N.A.	OISD 153
46	All plant area	TOC	Hach	3			OEM		OEM	M2 (CAMC Visit every 2 Month)
47	All plant area	PH	Hach	3			OEM		OEM	
48	All plant area	DO	Hach	3			OEM		OEM	
49	All plant area	PH	Honeywell	1			OEM		OEM	
50	All Plant Area	Condensate Analyser	Honeywell	1			OEM		OEM	
51	All plant area	Sulphide	Hach	1			OEM		OEM	
52	All plant area	Oil In Water	Hach	1			OEM		OEM	M6 (As per Site AMC)
53	Control Room	DCS	Honeywell	1			OEM		N.A.	
54	Control Room	ESD	Honeywell	1			OEM		N.A.	
55	Control Room	ESD (F&G)	Honeywell	1			OEM		N.A.	M3 (As pe Site AMC)
56	Effluent treatment plant	PLC	Allen bradley/Rockwell Automation	1			OEM		N.A.	
57	Booster pump area	Vibration Monitor	Bently Nevada	1			OEM		N.A.	
58	Metering skid	Flow computer	Thermofisher scientific	1			OEM		OEM	Yearly
59	PU Area/control room	TFMS	SBEM Pvt. Ltd.	1	OEM				N.A.	As per SOP
60	All plant area	CCTV	Nelco	14			OEM/Third party		N.A.	As per OEM / SOP
61	Control room	Clean agent system	Nitin Fire Protection industries Limited, Mumbai	1			OEM		N.A.	As per OEM / SOP
62	Fire station	Fire Alarm system	Honeywell	1	NA	OEM	OEM	N.A.	N.A.	As per OEM / SOP
63	Fire Pump House	Fire pumps Automation (Interface panel)	Venus Engineering Corporation	1			B		N.A.	
64	Boiler/Flare/ETP/Mobile van	AQMS	Environment S.A	4	OEM				OEM	
65	Air drier	Air drier	Indcon	1		OEM			N.A.	As per OEM / SOP
66	All plant area	Junction Box	FLEXPRO ELECTRICALS	173			B		N.A.	OISD 153
67	Compressor Area	LCP	Indcon	1			B		N.A.	As per OEM / SOP
68	Boiler Area	LCP	Siemens	2			B		N.A.	As per OEM / SOP
69	Flare Area	LCP	Ader Welding	1			B		N.A.	As per OEM / SOP