		List of identi	fied imported items (indicative) procured by Haldia Refinery					
SL	DEPT DESCRIPTION		ITEM DETAILS					
NO.		(Head)						
1		Pumps-Centrifugal	OIL FILTER of Pump,P/N-09-22-053 of M/s. Sundyne Asia Japan Co., Ltd					
2	MECH MAINT	Pumps-Centrifugal	MECH. SEALS Z.95X25 of Pump P/N09AS19 AA06A1A0 of M/s. Sundyne Asia Japan Co., Ltd					
3		Pumps-Centrifugal	Flat Gasket of Pump,P/N 106,AISI 316 of M/s. PERONI POMPE SPA					
4		Boilers, Furnace & Assessories	INC PILOT ASSY, RGB- 1-1/2,UA-184,CF8M,P/N;5 of M/s. ZEECO INC					
5		Boilers, Furnace & Assessories	CENTER GUN GASKET,AA-112,DRG.D-RB-090,26 of M/s. ZEECO INC					
6		Boilers, Furnace & Assessories	AC-160 BURNER TILE SET,P/N-DA-045 of M/s. ZEECO INC					
7		Instrumentation & Fittings	PYROMETER,OPTICL,INFRA RED,200~1600DEG C of M/s. IRIS / HONEYWELL					
8	INST.	Instrumentation & Fittings	VIBRATION PROB,P/N-330105-02-12-05-02-05					
9		Control Valves & Parts	COMPLETE BUTTERFLY VALVE 3 INCH					
10		Control Valves & Parts	DUAL BUTTERFLY VLV SECTION DIVIDER 70"NB of					
11		Instrumentation & Fittings	SS TUBE 316SS, SMLS, 12MM O.D X 0.065INT					
12		Control Valves & Parts	VALVE ACTUATOR, CBB725-SR40-CW					
13		Control Valves & Parts	VALVE12IN 300,37ROV103					
14		Instrumentation & Fittings	Thermocouple,B,HTX-B-B-O-13.9-6"/150RS-XPG-AA,DEL of M/s. IRIS / HONEYWELL					
15		Instrumentation & Fittings	MULTIPOINT Thermocouple,E,DUPL,12POINT,4IN2500RTJ					
16		Instrumentation & Fittings	MULTIPOINT Thermocouple,K,DIA 3.18MM,L 4400					
17			DISTILLATION FLASK I PAC P/N 2201-004-012 of M/s. AC ANALYTICAL CONTROLS BV					
18			Cylinder tube p/n2202-004-001 of M/s. AC ANALYTICAL CONTROLS BV					
19			CONDENSOR CLEANER p/n2000-004-002 of M/s. AC ANALYTICAL CONTROLS BV					
20			COC Test Cup with handle (Standard), of M/s. ISL SAS					
21			T-FUEL, P/N 14244-1,F/CFR CETANE of M/s. EXPOTECH USA INC.					
22			U-FUEL, P/N 14245-1,F/CFR CETANE of M/s. EXPOTECH USA INC. AUTOMATIC VACUUM DISTILLATION APPARATUS of M/s. PILODIST GmbH					
23			AUTOWATIC VACOUNT DISTILLATION APPARATOS OF M/S. PILODIST GITION					
24			ANALYSER,AUTO ATMOS DISTILLATION D-86 of M/s. INSTRUMENTATION SCIENTIFIQUE DE					
25	QC		SPARES OF AUTOMATIC NOACK EVALUATOR of M/s. ISL SAS					
26			STABINGER VISCOMETER SVM 3000 of M/s. Anton Paar GmbH					
27			ANALYSER,GAS,CHROMATOGRAPH of M/s. PERKIN ELMER SINGAPORE PTE LTD.					
28			MICROWAVE DIGESTOR of M/s. MILESTONE S.R.L					
29			BENCH TOP ED XRF ANALYSER of M/s. OXFORD INSTRUMENTS ANALYTICAL GMBH					
30			LOVIBOND PETROLEUM OIL COMPARATOR of M/s. THE TINTOMETER LTD					
31			POUR POINT APPARATUS of M/s. KOEHLER INSTRUMENTS COMPANY INC					
32			MICRO SEPAROMETER (WSIM) of M/s. EXPOTECH USA INC					
33			AUTO PMCC FLASH POINT of M/s. INSTRUMENTATION SCIENTIFIQUE DE					
34			AUTO ABEL FLASH POINT of M/s. INSTRUMENTATION SCIENTIFIQUE DE					
35			AUTO COC FLASH POINT of M/s. INSTRUMENTATION SCIENTIFIQUE DE ATF CONDUCTIVITY METER,ASTM D-2624 of M/s. EXPOTECH USA INC					
36 37			RESCOCAST 9LI of RESCO PRODUCT INC, USA					
38			RESCOCAST 9LTOT RESCO PRODUCT INC, USA					
39	Civil		RESCOCAST TAR-223 OF RESCO PRODUCT INC, USA					
40			RESCOCAST 17E of RESCO PRODUCT INC, USA					
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EQUPMENTS DETAILS (TPS - RO PLANT)

SL NO	EQUIPMENT NAME	TAG NO	COUPLINGS	MOTOR RATING			PUMP DATA						
				RPM	KW	FULL LOAD CURRENT(A)	MODEL NO	CAPACITY	SUC. PRE.	DIS. PRE.	HEAD(M)	SUC. SIZE	DIS. SIZE
41	RAW WATER PUMP	55P1101A/B/C	JAW TYPE	2990	15	37	35-65-160	70M3/HR	1.0KG/CM2	5.2KG/CM2	42	3.0INCH	2.5INCH
42	UF BACK WASH PUMP	55UFPH01A/B/C/D	JAW TYPE	2880	9.3	24	35-65-160	92M3/HR	0.3KG/CM2	2.5KG/CM2	2.1	3.0INCH	2.5INCH
43	R.O. FEED PUMP	55P3101A/B/C	JAW TYPE	2880	7.5	18	35-50-160	65M3/HR	0.2-0.5KG/CM2	2-2.5KG/CM2	20	2.5INCH	2.0INCH
44	R.O.H.P. PUMP	55ROVM01A/B/C	JAW TYPE	2980	37	92.5	EVM64-7-2F5	68M3/HR	1.2-2.5KG/CM2	14-15KG/CM2	12.5	4.0INCH	4.0INCH
45	D.G. SUPPLY PUMP	55P5101A/B	JAW TYPE	2930	15	37	3S-65-160	100M3/HR	0.5KG/CM2	5.5KG/CM2	40	3.0INCH	2.5INCH
46	RO CHEMICAL CLEANING PUMP	55ROHP01	JAW TYPE	1440	15	37	CCR-80-160-R6S2L3	120M3/HR	0.1KG/CM2	2.5KG/CM2	25	3.0INCH	2.5INCH
47	MGF AIR BLOWER	55MGF1101A/B	BELT TYPE	1440	9.3	24	M5225	7.2 m3/MIN	ATA	4.0KG/CM2	4		
48	DEGASER BLOWER	55DGB5101A/B	JAW TYPE	290	1.1	2.5	RB-25-4/D	35.5M3/MIN	ATA	55MMWC	5MMWC		
49	HYPO CLEANING PUMP	55UFPD01A/B	NA	1440	0.75	1.5	CDS 90-10	5.7M3/HR	0.1KG/CM2	2.5KG/CM2	25		
50	HIGH PH CLEANING PUMP	55UFPD02A/B	NA	1440	0.37	1	TAM6165116	0.35M3/HR	0.1KG/CM2	2.5KG/CM2	25		
51	LOW PH CLEANING PUMP	55UFPD03A/B	NA	1444	0.37	1	TAM6165116	0.57M3/HR	0.1KG/CM2	2.5KG/CM2	25		
52	SMBS DOSING PUMP	55DP3101A/B	NA	1450	0.08	0.2	30BX-3	0-15LPH	NEGATIVE	2.5KG/CM2	20		
53	ANTISCALEN DOSING PUMP	55DP3102A/B	NA	1450	0.08	0.2	80BX-3	0.15LPH	NEGATIVE	2.5KG/CM2	20		
54	LOW PH DOSIING PUMP	55DP3103A/B	NA	1450	0.08	0.2	TAM294116	0.40M3/HR	0.1KG/CM2	2.0KG/CM2	20		
55	RAW WATER HYPO DOSING PUMP	55DP1101A/B	NA										
56	AGITATOR	55\$2101											
57	AGITATOR	55\$3101											