

### Five year Plan for Procurement of Goods

Sr No	Name of machinery/component	Number of Machinery /components likely to be procured in next five year					Estimated value for these procurement in next five year (INR Cr)				
		2020-21	2021-22	2022-23	2023-24	2024-25	2020-21	2021-22	2022-23	2023-24	2024-25
1	Motors	25	17	5	1	0	7.16	6.55	0.80	3.00	0.00
2	Electrical panel and Components	60	4	50	3	46	39.03	9.36	8.05	5.85	5.70
3	Procurement of 33 kv Cable	0	0	0	8	0	0.00	0.00	0.00	7.50	0.00
4	Electronic access control	0	1	0	0	0	0.00	2.60	0.00	0.00	0.00
5	LED fittings	2500	1000	0	0	0	1.00	0.80	0.00	0.00	0.00
6	Lightning Protection of External Floating Roof Tanks.	0	1	0	0	0	0.00	7.15	0.00	0.00	0.00
7	Compressors and Spares	505	736	435	300	504	4.00	13.75	64.30	2.50	6.90
8	Pump and pump spares	1562	1575	1551	1553	1550	15.15	18.3	17.25	27.75	18.5
9	Gas Turbine Generator Spares	150		35		35	11.9		2.1		2.5
10	Turbine and Spares			1					2.5		
11	Valves and spares		20					4.2			
12	Replacement of P3206 and P4201			4					1.1		
13	Heat Exchanger and Components	51	39	36	49	59	23.44	12.37	9.88	12.31	15.91
14	Procurement of Drum assembly		1					0.4			
15	Air Fin Coolers	4	23	1	0	0	1.10	9.22	11.38	0	0
16	Cooling Tower	2	1				2.81	5.62			
17	Filters	4	1	2	2	1	2.4	0.2	0.4	2.5	3
18	Furnace Spares	2	1	0	2	2	1.00	1.60	0.00	1.00	1.00
19	Electrical Fittings		2 Lot					2.10			
20	Spares for MBR membrane		1					3.40			
21	Instrumentation analyzers		5					1.50			
22	IT equipments and computers	1540	2084	2086	2170	2060	1.12	2.01	2.95	1.87	2.30
23	Lab Equipment	6	7	6	5	5	2.10	2.44	2.68	3.03	4.48
24	Distributed Control System	0	3	0	3	4	0.00	1.00	0.00	6.00	8.00
25	Analyzers (Process/stack)	4	2	2	2	2	4.00	1.50	1.50	1.50	1.50
26	Programmable Logic Controls	1	1	0	0	0	0.60	6.00	0.00	0.00	0.00
27	Field Instruments	10	35	15	0	0	1.00	1.25	0.00	0.00	0.00
28	40 T crane		1					2.30			
29	JCB		1					0.35			
30	Surface Grinding Machine			1					0.24		
31	Milling Machine Machine			1					0.30		
32	Horizontal Boring Machine					1					6.40
33	Vertical Lathe					1					3.70
34	CTR Tools Optimizers			6					0.84		
35	Vehicles (Jeeps)		7	5	5	5		0.49	0.35	0.35	0.35
36	Vehicles (Boleros)	1		4	4	4	0.10		0.40	0.40	0.40
37	Cooling Tower Pumps		1		1			1.35		1.35	

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38	LLPH Sea Water Vertical Pump		1				0.30				
39	Balancing Machine			1				0.65			
40	DHT: HP Exchanger	2					12.00				
41	HEATER ITS for DHT & MSB Heater	2					1.00				
42	CDU3: Exchanger Bundle (Ti bundles)	8					8.00				
43	CDU3 42F01 APH		1				6.00				
44	PRU overhead condenser compabloc,7E104		1				2.50				
45	PRU reboiler		1				1.50				
46	DHDS feed filter		1				1.50				
47	DHT feed filter			1				1.50			
48	Machine Monitoring system (spare probes, proximeters, monitoring system electronics, etc)	NIL	2 lots (FCCU2 MAB, WGC and RGC of DHDS)	1 lot (FCCU 1 MAB, CAB and WGC)	1 lot (spares)	2 lots (MS Block RGCs, NGCs and MGCs and DHT RGC)	0.00	0.50	0.50	0.25	1.00
49	EDG Replacement SS20 / SS50		4				1.00				
50	AVR replacement & DHT MUG Compressor				1				4.00		
51	DHDS RGC Motor, VFD replacement with DOL					1				5.00	
52	Safety Items - 7 sets. (DCP-500 Nos., Turbo pumps - 6 Nos., Transportable multigas area monitors - 10 Nos. Detectors, Portable Multigas detectors - 25 Nos., IR detectors - 3 Nos., Radiation Survey meters- 5 Nos. Remote controlled foam tender Monitors - 2 Nos.)	7					1.30				
53	Plug Valves	16	16	16			2.00	2.00	2.00		
54	Marine Brakeaway Coupling	2					4.00				
55	Sulphur Analyzers - 2 Sets DHT - 1 No. DHDS- 1 No.	2					4.00				
56	Piping Material						3.00	3.00	3.00	3.00	
57	Dosing Skid						0.50				
58	Walkie Talkie Sets	38					0.15				
59	Vehicle ( CISF Bus)	1					0.25				

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60	Real time corrosion monitoring							1.50	2.00		
61	Plate Heat Exchangers at VR							4.00			
62	Intelligent P&IDs							1.50	2.00		
63	Hotwell drum for CDU-II							0.80			
64	12C01 Column internals							10.00			
65	HLPH Turbines conversion							10.00	14.00		
66	Lifts for buildings at VR							1.00			
67	Revamp of Street lights at Housing colonies							1.00	1.00		
68	NHT splitter at MS Block									3.00	
69	Scale catcher in DHT									3.50	
70	Immersive training simulators							5.00			
71	Sagarmala - loading arms at wharf								40.00		
72	Warehouse Infrastructure	1					5.00				
73	Electrical equipment	1					60.40				
74	Access Control System & CCTVs for Sub-stations and SRRs (IR Cameras: 50 nos, W/P Cameras: 92 nos., ACS card readers: 184 nos., NVR Servers, Networking Components, FO/Power Cables, Conduits, Work station hardware and Software)	1					24.78				
75	Mainline Pumps (with HT motor and Variable Frequency Drive)	12	0	4	0	0	68.39	29.00	40.00	0.00	0.00
76	Booster Pumps	6	0	4	0	0	9.31	4.00	6.00	0.00	0.00
77	Sump Pumps	0	6	8	0	0	0.00	0.80	1.12	0.00	0.00
78	EOT Crane	4	0	2	0	0	2.32	0.00	1.40	0.00	0.00
79	Valves (8" & above)	1269	65	78	0	0	107.16	15.00	15.60		0.00
80	Control Valve	9	0	5	0	0	1.60	1.00	3.00	0.00	0.00
81	DG Set	43	6	5	0	0	6.05	1.15	1.00	0.00	0.00
82	Fire Water Pump	15	0	9	0	0	4.32	0.00	2.81	0.00	0.00
83	Carosuel & Downstram Equipment	1			2		3.00			6.00	
84	New LPG cylinders and Regulators	3900000	4000000				500.00	522.23			
85	Booster Compressor (250-400 SCMH)	15	30	60	110	200	9.20	18.41	36.82	67.50	122.72
86	Double nozzle CBG dispenser	15	30	60	110	200	1.74	3.48	6.96	12.76	23.20
87	Stationary cascade (3000 WL ~300 kg)	15	30	60	110	200	2.70	5.40	10.80	19.80	36.00
88	Gas Analyser	15	30	60	110	200	0.90	1.80	3.60	6.60	12.00
89	DU (Dispensing Units)	230	0	0	250	0	4.15	0.00	0.00	4.70	0.00
90	S S TANK (22/35 KL)	100	110	120	130	140	10.00	11.00	12.00	13.00	14.00
91	AUTOMATION	15	16	18	19	20	0.75	0.80	0.90	0.95	1.00
92	Kettles	6	2	4	2	10	4.00	1.40	2.80	1.40	7.00
93	Filling Machine		2	2		20		0.60	0.60		14.00

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94	RPS-FM				1	2				3.50	7.00
95	Pumps	6	6	10	2	120	0.15	0.15	0.25	0.05	3.00
96	NAS Filtration			3		3			0.60		0.60
97	Drum Decanting Unit			3		3			0.60		0.60
98	Aircraft Refueller	7	13	10	5	25	13.25	18.20	15.40	8.50	47.50
99	Bunded Tank	2	2	2	2	2	1.80	2.00	2.20	2.42	2.66
100	Aviation Filters	1700	1785	1874.25	1967	2066	1.06	1.11	1.17	1.23	1.29
101	Aviation Hoses	100	105	110.25	115	121	0.60	0.63	0.66	0.69	0.73
102	Digital Water Detector	60	40	0	0	0	14.90	10.00	0.00	0.00	0.00
103	DG Sets	4.00	2.00	1.00			1.56	0.65	0.30		
104	Fire Engines	3.00		5.00			0.60		1.00		
105	Pumps	27.00	31.00	9.00			3.07	5.26	1.17		
							<b>1016.87</b>	<b>824.97</b>	<b>362.43</b>	<b>239.76</b>	<b>382.93</b>

The nos and value given above are tentative and are subject to change