

NAME OF ORGANISATION	INDIANOIL CORPORATION LIMITED	Available at "Indianoil for Suppliers/Future procurement plan
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MINISTRY/DEPT	MoPNG	

FINANCIAL YEAR 2021 - 22

Capex Procurement Projected _ Refineries

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Vessels/Drums/Tanks		427	Nos	342.39
2	Pumps		898	Nos	512.08
3	Reactors		64	Nos	299.32
4	Column/Column Internals/Column Modification		117	Nos	381.85
5	Heat Ex/Air coolers/Fin Fan Coolers		486	Nos	692.93
6	Filters		1	Nos	0.08
7	Instrumentation items (DCS, PLC, Analyser,,sensors,, Flowmeter,Transmitter etc.)		LOT	LOT	71.05
8	Instrument Cables		LOT	LOT	27.44
9	Electrical Items (Transformer, Switchboard,Switch gears, HV/MV Boards,Motors,Hoist,PFIC Panel,VFD,Genset)		LOT	LOT	69.40
10	Electrical Cables		LOT	LOT	45.94
11	Compressors/Blowers/Fans		38	Nos	354.86
12	Heaters & Stacks		29	Nos	409.20
13	Bulk (Pipe/Fittings/Flanges/Valve)		LOT	LOT	193.72
14	Package Items(HVAC,ETP,Refigeration,Cooling Tower,DI Guard,Chlorine Injection,Chemical Injection,Side Stream Filter,Ethylene BOG,TEG Borelling,Flare,Communication Mgmt Sytem,Nitrogen Cooling System,Control Monitoring System,Ambience Air Monitoring system,PCK metering Skid,Cathodic Protectin System,FDAS system,CCTV,Custody Transfer Metering Skid,Clean Agent System)		LOT	LOT	1735.93
15	Fire Fighting system/equipment/package , Foam Concentrate, Manual & Remote Operated High Volume Longe Range Monitor with Accessories		LOT	LOT	10.00
16	Incinerator & Instr. Components		-	Nos	-
17	Mech items :EOT Crane,Forklift,Weigh Bridge,Industrial Lift,Belt & Screw conveyors/Dock leveller		16	Nos	2.00
18	Steam Turbine		1	Nos	50
19	Rotary Valves/Safety Valves/Control Valves/On-off Valves/Emergency Vent Valves/Shutdown Valves		LOT	LOT	4.72
20	Mixers & Agitators		35	Nos	226
21	Driers		-		-
22	Separators		-		-
23	Boiler		-		-
24	Lab Equipment		-		-
25	Pig Launcher & Pig Receiver		-		-
26	Marine Loading Arm		-		-
27	Inert Ceramic balls		-		-
28	Sample Coolers (PI) & Sample Bombs (PE)		-		-
29	Mounded Bullet		5	Nos	66
30	Spare Components (Compressor/Pumps/Feed Coalescer)		LOT	LOT	10.82
31	Miscellaneous items (including FR approved project)		LOT	LOT	826.89
32	API 610 Centrifugal Pump		4	No.	25

33	Venturi type Steam Trap		8	Nos	1
34	Bottom mounted constant spring support		24	Nos	2.3
35	CLARIANT OleMax 101 (8mm Spheres) Support Balls (Ceramic/Alumina) - 12 mm Size		62588	Kgs	45
			5460	Kgs	
36	Treater Adsorbent		1	Lot	12
37	Chloride Guard Bed Adsorbent		1	Lot	0.72
38	Dryer treater Adsorbent		1	Lot	8
39	Automatic Storage & Retrieval System for Petrochemical Warehouse		1	Set	198
40	Burner for Process heaters		4	Set	30
41	Oxygen Analyser		3	Nos.	1
42	Plant Lift (Hazardous area & Flameproof)		1	No.	5
43	H2S Analyser, H2/COS Analyser		1	No.	2
44	H2S Analyser in Sulphur recovery Tail Gas Analyser in Sulphur recovery unit Analyser in Stack & Ambient air quality measurement for Sox		1	No.	2.5
45	Water Quality Analyzers like COD, BOD, Turbidity, TOC.		14	Nos.	5
46	Vibration Monitoring System		2	Nos.	5
47	Analyser in Stack & ambient air quality measurement for PM2.5 / PM10		2	Nos.	0.1
48	Bagging and Pelletizing Plant		4	Nos.	35
49	Check Valves (exotic metallurgy, dual plate, swing type, duplex)		14	Nos.	1
50	Reactor Internals (of Proprietary profile wire and baffle with MOC - SS 347 for PX- PTA Expansion project, Panipat)		1	Lot	0.5
51	BALL VALVES of Duplex, Alloy 276		50	Nos.	3.5
52	Know-how, Process Package, Proprietary Equipment (if any) and other services for the Bitumen Manufacturing Unit		2	No.	32

**Procurement Projected - For Repair &
Maintenance of Refineries**

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Pump Spares			Lot	49
2	Mechanical Seal Spares			Lot	58
3	Bearings			Lot	5
4	Turbine Spares			Lot	119
5	Steam Engine Spares			Lot	1
6	Furnace Spares			Lot	15
7	Compressor Spares			Lot	62
8	Fan & Blower Spares			Lot	7
9	Agitator & Mixer Spares			Lot	2
10	ETP, LPG Plant Equipment Spares			Lot	12
11	Air Conditioner Spares			Lot	2
12	Heat Exchanger Spares			Lot	47
13	Column/ Reactor Spares			Lot	35
14	Pipe & Pipe Fittings			Lot	130
15	Gear Box Spares			Lot	9
16	Motor Spares			Lot	4
17	Transformer, Battery, Switch Gear, Cable, Lamp etc. Spares			Lot	82
18		Liquid oxidation Catalyst for spent caustic regeneration	1.5	MT	2.18
19		Anti Oxidant (AO 1010) Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	980	MT	36.42
20		Anti Oxidant AO 168/ AO9	1565	MT	38.10
21		AO1076 (Octadecyl β - (3,5-di-tert-butyl-4-hydroxy phenyl)-propionate)	96	MT	3.8
22		ATF Merox Catalyst - Pre impregnated activated charcoal	36	M3	0.81
23		Benzene hydrogenation catalyst for ISOM unit	2.1	MT	2.55
24		CAB catalyst	16	MT	2.65
25		CAB-2 catalyst (Blend of vanadium oxytrichloride & titanium tetrachloride 50/50)	31	MT	4.65
26		Carbon Monoxide (CO) promoter catalyst additive for FCC Unit	16	MT	5.87
27		Catalyst for DCU LPG Merox Unit	547	L	0.28
28		Hindered amine light stabilizer (HALS) - Chimassorb 944	9	MT	0.93
29		Claus Catalyst (Al based)	151.2	M3	1.45
30		Claus Catalyst charge for Sulphur Recovery Unit (SRU)	22	M3	0.71
31		Chloride guard adsorbent for Continuous			

		Catalytic Reforming Unit (CCRU) stabilizer feed	30.5	MT	0.9
32		2-Hydroxy-4-n-octoxybenzophenone (Cyasorb 531/UV-1)	6	MT	0.75
33		Cyclo-Hexyl Methyl Methoxysilane (DONOR C)	33	MT	3.19
34		Di-ICyclo-Pentyl-Di-Methoxy-Silane (DONOR D)	3	MT	1.21
35		Slip additives (Erucamide)	110	MT	4.7
36		Ethylene drying and CO2 removal bed (Adsorbant)	8	MT	0.37
37		Ethylene drying and CO2 removal bed (Foxed) for PP Unit	3	MT	0.43
38		Fluidized Catalytic Cracking Catalyst	4435	MT	139
39		Grease (VASELINE)	27	MT	0.72
40		Hydrotreating and Hydrocracking catalyst for Hydrocracking unit	320	MT	80.25
41		Hydrotreating Catalyst for DHDt unit	478	MT	80.4
42		ISOM catalyst	24	MT	35
43		Liquid oxidation Catalyst for spent caustic regeneration	1.59	MT	2.18
44		Low temp. hydrogenation catalyst (Tail Gas Treatment Unit)	21.57	MT	1.77
45		Molecular sieves-desiccant (sodium-potassium-alumino silicate)	47.6	MT	1.25
46		Optical brightener	1	MT	0.62
47		PEPQ (Phosphorous trichloride, reaction products with 1,1-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol) (secondary antioxidant)	186	MT	19.80
48		Peroxide-101 (2, 5 Dimethyl-2,5-di (tert-butyl-peroxy) hexane)	92	MT	8.91
49		PG/Pelargonic acid/ C8-C10 fatty acid	330	MT	9.50
50	Chemicals, Catalyst & additives	PP Catalyst. A composition of Magnesium Chloride and 1,2 Benzenedicarboxylic acid, 1,2 Bis[2-chloro-1- (chloromethyle)ethyl] ester.	7.5	MT	24.20
51		PPA (Polymer Processing Additive)	40	MT	5.29
52		Propylene drying and CO2 removal bed for PP unit (Fixed bed)	9	MT	0.24
53		Silica gel-desiccant (Compound of Silicon dioxide)	187	MT	4.30
54		T Fuel & U-Fuel for analysis of Cetane number	820	Ltr	0.21
55		UV stabilizer 622	150	MT	8.80
56		ZN-180M (Avant CATALYST) or equivalent	240	Kg	0.75
57		ZSM-5 catalyst	100	MT	8.74
58		Primary Reference Fuel (PRF) {ISO-Octane & n heptane}	880	Kg	0.11
59		ATF (Aviation Turbine fuel) Merox catalyst - Pre impregnated activated charcoal	36	M ³	0.81
60		DSTDP (distearyl thiodipropionate) - acts as a secondary antioxidant for PP polymers.	65	MT	2.30
61		Speciality Grease - Mixture of higher paraffin hydrocarbon used as catalyst protection in Spheripol PP technology for production of Polypropylene.	15	MT	0.40
62		Magnesium Aluminium Hydroxide Carbonate Hydrate (DHT 4A/Hycite 713) -used in reaction for acid scavenging in polymer production and processingsystems.	85	MT	1.80
63		Alkyl Amine Ethoxylate (ATMER 163) - for neutralization of Catalyst & Co catalyst and works as anti-static agent.	45	MT	2.20
64		Anitoxidant AO 3114(1,3,5-Tris(3,5-di-tert-butyl-4-hydroxy benzyl)-s-triazine-2,4,6-(1H,3H,5H)trione) - specialized vis- breaking chemical used for speci fic PP grade	28	MT	1.33
65		Non-Aromatic catalyst batch mineral oil (MINERAL OIL) - used for diluting Donor in order to have better accuracy of the flow measure and also used for flushing in TEAL area.	70	MT	1.45
66		HDPE consumable polymerization Catalyst - used for	8	MT	21.60

		polymerization reaction for production of specific grade of High density polyethylene from Ethylene			
67		Antioxidant (AO-1330) -prevents polymer from degradation caused by exposure to heat, ultraviolet radiation (UV) and mechanical shear	46	MT	4.8
68		Desiccant for ethylene guard bed (Fixed bed for ethylene purification) - used for removal of Carbon monoxide, carbon dioxide, moisture from Ethylene feed in Swing unit to Ultra low levels.	63	MT	3.35
69		ST65692 (Biphenyl) -approved additive Packages required for manufacturing of Servo Duotherm S required at Panipat Refinery	60	MT	1.20
70		Mixed Butylated Phenol Antioxidant (ST4064) - used in blending in many lubricants	87.3	MT	1.66
71		Hydrogenated Terphenyl (ST58606) -approved additive Packages required for manufacturing of Servotherm SHT 32 required by IOCL Refinery.	304	MT	9.09
72		TEAL	18	MT	0.72
73	Mechanical Stores	Cast Air Preheater Module / Cast & Glass Air Preheater Modules / Glass Air Pre-Heater Modules	1	No	1.18
74		Cutter Blades of Extruder	1600	No	2.19
75		Hydrogen Tubular Reformer Catalyst Tubes	36	No	3.61
76		Rotary Tight Shut off Valve	4	No	0.60
77	Chemicals, Catalyst & additives	CD (Di- ethyl aluminum chloride)	30	MT	1.12
78	Chemicals, Catalyst & additives	CJ (Di- ethyl aluminum ethoxide)	30	MT	2.56
79	Chemicals, Catalyst & additives	GMS-90	250	MT	3.3
80	Chemicals, Catalyst & additives	Base FCC catalyst for INDMAX Unit.	1170	MT	34.5
81	Chemicals, Catalyst & additives	DMDS	450	MT	14.76
82	Chemicals, Catalyst & additives	RM 68 Master batch	110	MT	9.52
83	Equipment	Feed Filter Bank	1	No	6.18
84	Chemicals, Catalyst & additives	MIBK (METHYL ISOBUTYL KETONE)	700	MT	20
85	Mechanical Stores	Radiant Coils	2	Set	34.78
86	Chemicals, Catalyst & additives	Hydrogenation Catalyst (Activated Alumina impregnated with Cobalt and Molybdenum Oxides).	52.3	M3	2.54
87	Chemicals, Catalyst & additives	Liquid oxidation catalyst for FCC Indmax Unit	555	Kg	0.75
88	Lab equipment	Fully Automated Ball on Cylinder Lubricity Evaluator (BOCLE)	1	No.	0.86
89	Lab equipment	Trace Nitrogen Sulphur Analyser	1	No.	1.21
90	Chemicals, Catalyst & additives	Hydro treating catalyst for DHDS Unit	56	MT	6.04
91		ISO-Octane	48	MT	1.06
92	Chemicals, Catalyst & additives	Mineral Oil (White Oil)	205	MT	5.64

Procurement Projected - Capex and Repair & Maint - Pipelines

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Strainer (Nos)		7	Nos.	0.12
2	Transfer Pump (Nos)		2	Nos.	0.15
3	ACDB Panel (Nos)		25	Nos.	3.18
4	API 6D Ball Valves (Nos)			Nos.	
5	API 6D Valves (Nos)			Nos.	
6	Ball Valve (Nos)		164	Nos.	8.61
7	Basket Strainer (Nos)		3	Nos.	1.00
8	Control valve (Nos)		4	Nos.	1.00
9	EEE (Nos)			Nos.	
10	Emergency evacuation equipment (Nos)		4	Nos.	2.00

11	Engine Spares		Lot	Lot	14.70
12	ER Probe(Nos)			Nos.	1.04
13	F/F PUMP, Jockey pumps, water filling pumps(Nos)		7	Nos.	0.70
14	Fire Fighting Pipes (km)			Km	
15	Fire Fighting Pump (Nos)		1	Nos.	1.00
16	Flow Tee (Nos)			Nos.	
17	Globe Valve (Nos)		4	Nos.	1.00
18	Heavy duty access Mats				
19	High Mast(Nos)		10	Nos.	3.03
20	HOT crane (Nos)		2	Nos.	1.00
21	HT Capacitor Panel(Nos)		2	Nos.	0.29
22	HT Panel(Nos)		2	Nos.	2.89
23	HT/LT/Control cables(km)		85	Km	0.58
24	Instrumentation, Control & SCADA System (Nos)		3	Nos.	1.49
25	Insulating coupling (Nos)		20	Nos.	1.00
26	Jockey pump (Nos)		1	Nos.	1.00
27	LT DG(Nos)		27	Nos.	0.64
28	LT Panel(Nos)		2	Nos.	0.00
29	Mainline pumping Unit (Nos)		8	Nos.	23.00
30	Marine Hoses for SPM			Nos.	9.00
31	Mechanical Pipe End connector+ Standard/Long seal Leak clamps+ Encapsulating Leak Clamps			Nos.	1.05
32	Metering skid assembly (consisting of Filtration, Metering and Pressure Reduction units) of various sizes for providing connectivity to CGD Entities from Gas pipelines and augmentation of existing facilities (Nos)		4	Nos.	1.01
33	Metering Skid Ph-III(Nos)				
34	Metering Skid(Nos)				
35	Misc. fire fighting equipment (Nos)		1	Nos.	2.00
36	NRPL Mainline pumping unit Replacement			Nos.	20.00
37	Other Marine Spares			Nos.	6.30
38	pipe fitting(Nos)		14000	Nos.	1.87
39	Pipe (km)		6.8	Nos.	6.12
40	Remote operated Valve (Nos)		2	Nos.	1.00
41	Scrapper Barrel		5	Nos.	1.00
42	Separator Filter (Nos)			Nos.	
43	Small size (<4") misc. valve (Nos)			Nos.	1.00
44	SRV (Nos)		1	Nos.	0.05
45	Station pipes(km)		13.3	Nos.	13.74
46	Steel Pipe (KM)		550	Km	519.00
47	Steel Plate (MT)		569	Nos.	5.80
48	sump pump and tank (Nos)			Nos.	
49	Swing check valve (Nos)		5	Nos.	1.00
50	Telecom System (comprising of DC power, Networking system, CCTV system, Telephone system, OFC, HDPE, etc.)(Nos)		3	Nos.	75.80
51	Transformer(Nos)		4	Nos.	24.88
52	Vadinar SPM Replacement project 1. Buoy & accessories 2. Concrete Coated Pipe		Lot	Nos.	500.00
53	Valves		Lot	Lot	4.00
54	VALVES of all types(Nos)		332	Nos.	3.48
55	VFD (Nos)		6	Nos.	20.00

Procurement Projected _ Marketing - LPG Group

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	LPG Pump		6	Nos.	3.7
2	LPG Compressor		9	Nos.	2.84
3	Air Compressor		6	Nos.	0.8
4	Air Dryer		3	Nos.	0.45
5	DG Set		6	Nos.	2.22
6	Fire Engine		6	Nos.	1.35
7	Valve change without Evacuation Machine		6	Nos.	1.4
8	LPG Loading arm		16	Nos.	0.44
9	Carousel		8	Nos.	23.6

10	Computers		50	Nos.	0.25
11	Additive dosing machines		30	Nos.	5.4
12	Carousal Cards in Nos.		380	Nos.	2.66
13	Mech Seals (Returbishing) Nos.for LPG Pump		95	Nos.	2.85
14	Mech Seals New in Nos. for LPG Pump		25	Nos.	2.00
15	Valves / Flanges / Gaskets / Spares in Nos.		300	Nos.	7.50
16	Cables (Control / Power) in RMs		30000	Nos.	0.45
17	Pressure / Temp Transmitters/Gauges in Nos.		200	Nos.	2.00
18	Fire Engine / DG / DC Batteries in Nos.		3300	Nos.	4.95
19	Conveyor Chain in RM		40000	Nos.	4.80
20	Air Ends of Screw Compressors		40	Nos.	2.00
21	Spares (Filters & Accessories) Air Comp in Nos.		500	Nos.	1.25
22	LPG Vap Comp Seals / valves / Plates		300	Nos.	0.90
23	Lights and Fixtures / Bulbs / glands / JBS / Switches		10000	Nos.	1.00
24	Relays / Fuses		5000	Nos.	1.00
25	Printer Cartridges		600	Nos.	0.30
26	Sprockets / Cylinders / Shafts / wearing strips / Pneumatic tubing / connectors		20000	Nos.	4.00
27	Misc Spares /Car [sensors / connectors / cables etc)		200	Nos.	2.00
28	TLD / TLF Spares		800	Nos.	2.00
29	Structural steel for Conv / Misc Works in MT		420	Nos.	1.60
30	Diesel / Fire Engine Spares / filters / glands		700	Nos.	4.9
31	Spares for Level gauges / transmitters		300	Nos.	3
32	Fire / SCADA / GMS Panel Spares / MIMIC / sensors / transmitter		300	Nos.	1.5
33	CCTV spares / modules		100	Nos.	1.5
34	Load cells for weigh bridges / weighing scales / carousals		1000	Nos.	2.5
35	Centering Arms of carousals		2500	Nos.	0.30

Procurement of LPG Cylinders & P Regulator

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	14.2 Kg Cylinders (Including New & Replacement)		8400000	Nos.	1070.69
2	19 Kg Cylinders (Including New & Replacement)		900000	Nos.	140.04
3	47.5 Kg Cylinders (Including New & Replacement)		50000	Nos.	19.26
4	5 Kg Cylinders (Including New & Replacement)		1500000	Nos.	130.01
5	425 KG Cylinders		2000	Nos.	13.17
6	Pressure Regulators		5000000	Nos.	72.44
7	Self Closing Valve		2000000	Nos.	168.00

Procurement Projected _ Marketing - Lubes

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Synthetic base oil Poly alfa olefin 6 CST		460	MT	12.18
2	ST5014 (Lithium Hydroxide Monohydrate)		275	MT	15.79
3	ST56058 (PIB 1000)		2140	MT	21.78
4	Synthetic base oil Poly alfa olefin 100 CST, PAO 100(ST 55580)		228.5	MT	8.17
5	PIB of higher molecular wt.(ST 56032/ST 56036)		208.8	MT	3.33

Procurement Projected _BD

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Testing for MRS rating, Slow Crack Growth (SCG), Rapid Crack Propagation (RCP), Pigment Dispersion, Weatherability		1	No.	1.00
2	Color Spectrophotometer (Based on reflectance)		1	No.	0.3

Procurement Projected _ Pipelines

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in
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					Rs/Crores
1	Marine Hoses		179	Nos.	65.37
FINANCIAL YEAR 2022 - 23					
Capex Procurement Projected _ Refineries					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Vessels/Drums/Tanks		99	Nos	108.06
2	Pumps		275	Nos	138.08
3	Reactors		10	Nos	240.00
4	Column/Column Internals/Column Modification		22	Nos	108.69
5	Heat Ex/Air coolers/Fin Fan Coolers		130	Nos	142.66
6	Filters		-	Nos	-
7	Instrumentation items (DCS, PLC, Analyser,,sensors,, Flowmeter,Transmitter etc.)		LOT	LOT	100.00
8	Instrument Cables		LOT	LOT	25.00
9	Electrical Items (Transformer, Switchboard,Switch gears, HV/MV Boards,Motors,Hoist,PFIC Panel,VFD,Genset)		LOT	LOT	70.00
10	Electrical Cables		LOT	LOT	50.00
11	Compressors/Blowers/Fans		14	Nos	180.00
12	Heaters & Stacks		2	Nos	69.61
13	Bulk(Pipe/Fittings/Flanges/Valve)		LOT	LOT	90.00
14	Package Items(HVAC,ETP,Refrigeration,Cooling Tower,DI Guard,Chlorine Injection,Chemical Injection,Side Stream Filter,Ethylene BOG,TEG Borelling,Flare,Communication Mgmt Sytem,Nitrogen Cooling System,Control Monitoring System,Ambience Air Monitoring system,PCK metering Skid,Cathodic Protection System,FDAS system,CCTV,Custody Transfer Metering Skid,Clean Agent System)		LOT	LOT	433.11
15	Fire Fighting system/equipment/package , Foam Concentrate, Manual & Remote Operated High Volume Longe Range Monitor with Accessories		LOT	LOT	40.00
16	Incinerator & Instr. Components		-	Nos	-
17	Mech items :EOT Crane,Forklift,Weigh Bridge,Industrial Lift,Belt & Screw conveyors/Dock leveller		-	Nos	-
18	Steam Turbine		-	Nos	-
19	Rotary Valves/Safety Valves/Control Valves/On-off Valves/Emergency Vent Valves/Shutdown Valves		-	Nos	-
20	Mixers & Agitators		-	Nos	-
21	Driers		-	Nos	-
22	Separators		-	Nos	-
23	Boiler		-	Nos	-
24	Lab Equipment		-	Nos	-
25	Pig Launcher & Pig Receiver		-	Nos	-
26	Marine Loading Arm		-	Nos	-
27	Inert Ceramic balls		-	LOT	-
28	Sample Coolers (PI) & Sample Bombs (PE)		-	Nos	-
29	Mounded Bullet		-	Nos	-
30	Spare Components (Compressor/Pumps/Feed Coalescer)		-	Nos	-
31	Miscellaneous items (including FR		LOT	LOT	692.25

	approved project)				
Procurement Projected - For Repair & Maintenance of Refineries					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Pump Spares			Lot	51
2	Mechanical Seal Spares			Lot	59
3	Bearings			Lot	5
4	Turbine Spares			Lot	122
5	Steam Engine Spares			Lot	1
6	Furnace Spares			Lot	15
7	Compressor Spares			Lot	64
8	Fan & Blower Spares			Lot	7
9	Agitator & Mixer Spares			Lot	2
10	ETP,LPG Plant Equipment Spares			Lot	12
11	Air Conditioner Spares			Lot	2
12	Heat Exchanger Spares			Lot	48
13	Column/ Reactor Spares			Lot	36
14	Pipe & Pipe Fittings			Lot	133
15	Gear Box Spares			Lot	9
16	Motor Spares			Lot	4
17	Transformer, Battery, Switch Gear, Cable, Lamp etc. Spares			Lot	84
18		Liquid oxidation Catalyst for spent caustic regeneration	1.5	MT	2.18
19		Anti Oxidant (AO 1010) Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	980	MT	38.24
20		Anti Oxidant AO 168/ AO9	1565	MT	40
21		AO1076 (Octadecyl β - (3,5-di- tert -butyl-4-hydroxy phenyl)-propionate	96	MT	3.8
22		ATF Merox Catalyst - Pre impregnated activated charcoal	36	M ³	0.81
23		Benzene hydrogenation catalyst for ISOM unit	2.1	MT	2.55
24		CAB catalyst	16	MT	2.65
25		CAB-2 catalyst (Blend of vanadium oxytrichloride & titanium tetrachloride 50/50)	31	MT	4.65
26		Carbon Monoxide (CO) promoter catalyst additive for FCC Unit	16	MT	5.87
27		Catalyst for DCU LPG Merox Unit	547	L	0.28
28		Hindered amine light stabilizer (HALS) - Chimassorb 944	9	MT	0.93
29		Claus Catalyst (Al based)	151.2	M ³	1.45
30		Claus Catalyst charge for Sulphur Recovery Unit (SRU)	22	M ³	0.71
31		Chloride guard adsorbent for Continuous Catalytic Reforming Unit (CCRU) stabilizer feed	30.5	MT	0.9
32		Z-Hydroxy-4-n-octoxybenzophenone (Cyasorb 531/ UV-1)	6	MT	0.75
33		Cyclo-Hexyl Methyl Methoxysilane (DONOR C)	33	MT	3.35
34		Di-ICyclo-Pentyl-Di-Methoxy-Silane (DONOR D)	3	MT	1.21
35		Slip additives (Erucamide)	110	MT	4.7
36		Ethylene drying and CO2 removal bed (Adsorbent)	8	MT	0.37
37		Ethylene drying and CO2 removal bed (Foxed) for PP Unit	3	MT	0.43
38		Fluidized Catalytic Cracking Catalyst	4435	MT	145.95
39		Grease (VASELINE)	27	MT	0.72
40		Hydrotreating and Hydrocracking catalyst for Hydrocracking unit	320	MT	80.25
41		Hydrotreating Catalyst for DHDt unit	478	MT	80.4
42		ISOM catalyst	24	MT	35
43		Liquid oxidation Catalyst for spent caustic regeneration	1.59	MT	2.18
44		Low temp. hydrogenation catalyst (Tail Gas Treatment Unit)	21.57	MT	1.77
45		Molecular sieves-desiccant (sodium-potassium-alumino silicate)	47.6	MT	1.25
46		Optical brightener	1	MT	0.62
47		PEPQ (Phosphorous trichloride, reaction products)			19.80

		with 1,1-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol) (secondary antioxidant)	186	MT	
48		Peroxide-101 (2, 5 Dimethyl-2,5-di (tert-butyl-peroxy) hexane)	92	MT	8.91
49		PG/Pelargonic acid/ C8-C10 fatty acid	330	MT	9.5
50	Chemicals, Catalyst & additives	PP Catalyst. A composition of Magnesium Chloride and 1,2 Benzenedicarboxylic acid, 1,2 Bis[2-chloro-1- (chloromethyl)ethyl] ester.	7.5	MT	24.20
51		PPA (Polymer Processing Additive)	40	MT	5.29
52		Propylene drying and CO2 removal bed for PP unit (Fixed bed)	9	MT	0.24
53		Silica gel-desiccant (Compound of Silicon dioxide)	187	MT	4.30
54		T Fuel & U-Fuel for analysis of Cetane number	820	Ltr	0.21
55		UV stabilizer 622	150	MT	8.80
56		ZN-180M (Avant CATALYST) or equivalent	240	Kg	0.75
57		ZSM-5 catalyst	100	MT	8.74
58		Primary Reference Fuel (PRF) {ISO-Octane & n heptane}	880	Kg	0.11
59		ATF (Aviation Turbine fuel) Merox catalyst - Pre impregnated activated charcoal	36	M3	0.81
60		DSTDP (distearyl thiodipropionate) - acts as a secondary antioxidant for PP polymers.	65	MT	2.30
61		Speciality Grease - Mixture of higher paraffin hydrocarbon used as catalyst protection in Spheripol PP technology for production of Polypropylene.	15	MT	0.40
62		Magnesium Aluminium Hydroxide Carbonate Hydrate (DHT 4A/Hycite 713) -used in reaction for acid scavenging in polymer production and processing systems.	85	MT	1.80
63		Alkyl Amine Ethoxylate (ATMER 163) - for neutralization of Catalyst & Co catalyst and works as anti-static agent.	45	MT	2.20
64		Anitoxidant AO 3114(1,3,5-Tris(3,5-di-tert-butyl-4-hydroxy benzyl)-s-triazine-2,4,6-(1H,3H,5H)trione) - specialized vis- breaking chemical used for speci fic PP grade	28	MT	1.33
65		Non-Aromatic catalyst batch mineral oil (MINERAL OIL) - used for diluting Donor in order to have better accuracy of the flow measure and also used for flushi ng in TEAL area.	70	MT	1.45
66		HDPE consumable polymerization Catalyst - used for polymerization reaction for production of specific grade of High density polyethylene from Ethylene	8	MT	21.60
67		Antioxidant (AO-1330) -prevents polymer from degradation caused by exposure to heat, ultraviolet radiation (UV) and mechanical shear	46	MT	4.8
68		Desiccant for ethylene guard bed (Fixed bed for ethylene purification) - used for removal of Carbon monoxide, carbon dioxide, moisture from Ethylene feed in Swing unit to Ultra low levels.	63	MT	3.35
69		ST65692 (Biphenyl) -approved additive Packages required for manufacturing of Servo Duotherm S required at Panipat Refinery	60	MT	1.20
70		Mixed Butylated Phenol Antioxidant (ST4064) - used in blending in many lubricants	87.3	MT	1.66
71		Hydrogenated Terphenyl (ST58606) -approved additive Packages required for manufacturing of Servotherm SHT 32 required by IOCL Refinery.	304	MT	9.09
72		TEAL	18	MT	0.72

73	Mechanical Stores	Cast Air Preheater Module / Cast & Glass Air Preheater Modules / Glass Air Pre-Heater Modules	1	No	1.18
74		Cutter Blades of Extruder	1600	No	2.19
75		Hydrogen Tubular Reformer Catalyst Tubes	36	No	3.61
76		Rotary Tight Shut off Valve	4	No	0.60
77	Chemicals, Catalyst & additives	CD (Di- ethyl aluminum chloride)	30	MT	1.12
78	Chemicals, Catalyst & additives	CJ (Di- ethyl aluminum ethoxide)	30	MT	2.56
79	Chemicals, Catalyst & additives	Base FCC catalyst for INDMAX Unit.	1170	MT	34.5
80	Chemicals, Catalyst & additives	DMDS	450	MT	15.5
81	Chemicals, Catalyst & additives	RM 68 Master batch	110	MT	10
82	Chemicals, Catalyst & additives	MIBK (METHYL ISOBUTYL KETONE)	700	MT	21
83	Chemicals, Catalyst & additives	Liquid oxidation catalyst for FCC Indmax Unit	555	Kg	0.79
84	Chemicals, Catalyst & additives	FCC Catalyst – Paradip Refinery	5364	MT	138.40
85	Chemicals, Catalyst & additives	Hydro treating catalyst for DHDS Unit	56	MT	6.34
86		ISO-Octane	48	MT	1.11
87	Chemicals, Catalyst & additives	Mineral Oil (White Oil)	205	MT	5.92
Procurement Projected - Capex and Repair & Maint - Pipelines					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Strainer (Nos)			Nos.	
2	Transfer Pump (Nos)			Nos.	
3	ACDB Panel (Nos)			Nos.	
4	API 6D Ball Valves (Nos)			Nos.	
5	API 6D Valves (Nos)			Nos.	
6	Ball Valve (Nos)			Nos.	
7	Basket Strainer (Nos)			Nos.	
8	Control valve (Nos)			Nos.	
9	EEE (Nos)			Nos.	
10	Emergency evacuation equipment (Nos)			Nos.	
11	Engine Spares			Lot	15.50
12	ER Probe(Nos)			Nos.	
13	F/F PUMP, Jockey pumps, water filling pumps(Nos)			Nos.	
14	Fire Fighting Pipes (km)			Km	
15	Fire Fighting Pump (Nos)			Nos.	
16	Flow Tee (Nos)			Nos.	
17	Globe Valve (Nos)			Nos.	
18	Heavy duty access Mats			Nos.	
19	High Mast(Nos)			Nos.	
20	HOT crane (Nos)			Nos.	
21	HT Capacitor Panel(Nos)			Nos.	
22	HT Panel(Nos)			Nos.	
23	HT/LT/Control cables(km)			Km	
24	Instrumentation, Control & SCADA System (Nos)			Nos.	
25	Insulating coupling (Nos)			Nos.	
26	Jockey pump (Nos)			Nos.	
27	LT DG(Nos)			Nos.	
28	LT Panel(Nos)			Nos.	
29	Mainline pumping Unit (Nos)			Nos.	
30	Marine Hoses for SPM			Lot	30.00
31	Mechanical Pipe End connector+ Standard/Long seal Leak clamps+ Encapsulating Leak Clamps			Lot	1.10
32	Metering skid assembly (consisting of Filtration, Metering and Pressure Reduction units) of various sizes for providing connectivity to CGD Entities from Gas pipelines and augmentation of existing facilities (Nos)				
33	Metering Skid Ph-III(Nos)				
34	Metering Skid(Nos)				
35	Misc. fire fighting equipment (Nos)				
36	NRPL Mainline pumping unit Replacement			Lot	118.00
37	Other Marine Spares			Lot	15.14
38	pipe fitting(Nos)			Nos.	
39	Pipe (km)			Nos.	
40	Remote operated Valve (Nos)			Nos.	
41	Scraper Barrel			Nos.	
42	Separator Filter (Nos)			Nos.	
43	Small size (<4") misc. valve (Nos)			Nos.	
44					

45	SRV (Nos)			Nos.	
46	Station pipes(km)			Nos.	
47	Steel Pipe (KM)			Km	
48	Steel Plate (MT)			Nos.	
49	sump pump and tank (Nos)			Nos.	
49	Swing check valve (Nos)			Nos.	
50	Telecom System (comprising of DC power, Networking system, CCTV system, Telephone system, OFC, HDPE, etc.)(Nos)			Nos.	
51	Transformer(Nos)			Nos.	
52	Vadinar SPM Replacement project				
53	1. Buoy & accessories			Nos.	
54	2. Concrete Coated Pipe			Lot	4.00
55	Valves			Nos.	
55	VALVES of all types(Nos)			Nos.	
55	VFD (Nos)			Nos.	

Procurement Projected _ Marketing - LPG Group

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	LPG Pump		2	Nos.	1.36
2	LPG Compressor		3	Nos.	1.04
3	Air Compressor		2	Nos.	0.29
4	Air Dryer		1	Nos.	0.17
5	DG Set		2	Nos.	0.81
6	Fire Engine		3	Nos.	0.75
7	Valve change without Evacuation Machine		2	Nos.	0.51
8	LPG Loading arm		16	Nos.	0.48
9	Carousel		2	Nos.	6.49
10	Computers		50	Nos.	0.25
11	Additive dosing machines		0	Nos.	0
12	Carousal Cards in Nos.		400	Nos.	2.80
13	Mech Seals (Returbishing) Nos.for LPG Pump		100	Nos.	3.00
14	Mech Seals New in Nos. for LPG Pump		25	Nos.	2.00
15	Valves / Flanges / Gaskets / Spares in Nos.		330	Nos.	8.25
16	Cables (Control / Power) in RMs		33000	Nos.	0.50
17	Pressure / Temp Transmitters/Gauges in Nos.		220	Nos.	2.20
18	Fire Engine / DG / DC Batteries in Nos.		3600	Nos.	5.40
19	Conveyor Chain in RM		44000	Nos.	5.28
20	Air Ends of Screw Compressors		44	Nos.	2.20
21	Spares (Filters & Accessories) Air Comp in Nos.		550	Nos.	1.38
22	LPG Vap Comp Seals / valves / Plates		330	Nos.	0.99
23	Lights and Fixtures / Bulbs / glands / JBS / Switches		12000	Nos.	1.20
24	Relays / Fuses		5500	Nos.	1.10
25	Printer Cartridges		650	Nos.	0.33
26	Sprockets / Cylinders / Shafts / wearing strips / Pneumatic tubing / connectors		24000	Nos.	4.80
27	Misc Spares /Car (sensors / connectors / cables etc)		210	Nos.	2.10
28	TLD / TLF Spares		880	Nos.	2.20
29	Structural steel for Conv / Misc Works in MT		450	Nos.	1.71
30	Diesel / Fire Engine Spares / filters / glands		720	Nos.	5.04
31	Spares for Level gauges / transmitters		330	Nos.	3.3
32	Fire / SCADA / GMS Panel Spares / MIMIC / sensors / transmitter		320	Nos.	1.6
33	CCTV spares / modules		110	Nos.	1.65
34	Load cells for weigh bridges / weighing scales / carousals		1100	Nos.	2.75
35	Centering Arms of carousals		2500	Nos.	0.30

Procurement of LPG Cylinders & P Regulator

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	14.2 Kg Cylinders (Including New & Replacement)		7300000	Nos.	936.85
2	19 Kg Cylinders (Including New & Replacement)		800000	Nos.	140.04
3	47.5 Kg Cylinders (Including New & Replacement)		50000	Nos.	19.26
4	5 Kg Cylinders (Including New & Replacement)		1000000	Nos.	86.67
5	425 KG Cylinders		2000	Nos.	13.17
	Pressure Regulators		4000000	Nos.	57.95
	Self Closing Valve		20400000	Nos.	171.00

Procurement Projected _ Marketing - Lubes

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Synthetic base oil Poly alfa olefin 6 CST		500	MT	13.24
2	ST5014 (Lithium Hydroxide Monohydrate)		300	MT	18.09
3	ST56058 (PIB 1000)		2247	MT	24.01
4	Synthetic base oil Poly alfa olefin 100 CST, PAO 100(ST 55580)		228.5	MT	8.58
5	PIB of higher molecular wt.(ST 56032/ST 56036)		264	MT	4.21

Procurement Projected _ Pipelines

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores

FINANCIAL YEAR 2023 - 24					
Capex Procurement Projected _ Refineries					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Vessels/Drums/Tanks		-	Nos.	-
2	Pumps		-	Nos.	-
3	Reactors		-	Nos.	-
4	Column/Column Internals/Column Modification		-	Nos.	-
5	Heat Ex/Air coolers/Fin Fan Coolers		-	Nos.	-
6	Filters		-	Nos.	-
7	Instrumentation items (DCS, PLC, Analyser,,sensors,, Flowmeter,Transmitter etc.)		LOT	LOT	40.00
8	Instrument Cables		LOT	LOT	10.00
9	Electrical Items (Transformer, Switchboard,Switch gears, HV/MV Boards,Motors,Hoist,PFIC Panel,VFD,Genset)		-	LOT	-
10	Electrical Cables		LOT	LOT	5.00
11	Compressors/Blowers/Fans		-	Nos.	-
12	Heaters & Stacks		-	Nos.	-
13	Bulk(Pipe/Fittings/Flanges/Valve)		LOT	LOT	30.00
14	Package Items(HVAC,ETP,Refrigeration,Cooling Tower,DI Guard,Chlorine Injection,Chemical Injection,Side Stream Filter,Ethylene BOG,TEG Borelling,Flare,Communication Mgmt Sytem,Nitrogen Cooling System,Control Monitoring System,Ambience Air Monitoring system,PCK metering Skid,Cathodic Protection System,FDAS system,CCTV,Custody Transfer Metering Skid,Clean Agent System)		LOT	LOT	150.00
15	Fire Fighting system/equipment/package , Foam Concentrate, Manual & Remote Operated High Volume Longe Range Monitor with Accessories		LOT	LOT	20.00
16	Incinerator & Instr. Components		-	Nos.	-
17	Mech items :EOT Crane,Forklift,Weigh Bridge,Industrial Lift,Belt & Screw conveyors/Dock leveller		-	Nos.	-
18	Steam Turbine		-	Nos.	-
19	Rotary Valves/Safety Valves/Control Valves/On-off Valves/Emergency Vent Valves/Shutdown Valves		-	Nos.	-
20	Mixers & Agitators		-	Nos.	-
21	Driers		-	Nos.	-
22	Separators		-	Nos.	-
23	Boiler		-	Nos.	-
24	Lab Equipment		-	Nos.	-
25	Pig Launcher & Pig Receiver		-	Nos.	-
26	Marine Loading Arm		-	Nos.	-
27	Inert Ceramic balls		-	LOT	-
28	Sample Coolers (PI) & Sample Bombs (PE)		-	Nos.	-
29	Mounded Bullet		-	Nos.	-
30	Spare Components (Compressor/Pumps/Feed Coalescer)		-	LOT	-
31	Miscellaneous items (including FR approved project)		LOT	LOT	176.75
Procurement Projected - For Repair & Maintance of Refineries					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement

					in Rs/Crores
1	Pump Spares			Lot	52
2	Mechanical Seal Spares			Lot	61
3	Bearings			Lot	5
4	Turbine Spares			Lot	125
5	Steam Engine Spares			Lot	1
6	Furnace Spares			Lot	15
7	Compressor Spares			Lot	65
8	Fan & Blower Spares			Lot	7
9	Agitator & Mixer Spares			Lot	2
10	ETP,LPG Plant Equipment Spares			Lot	13
11	Air Conditioner Spares			Lot	2
12	Heat Exchanger Spares			Lot	49
13	Column/ Reactor Spares			Lot	37
14	Pipe & Pipe Fittings			Lot	137
15	Gear Box Spares			Lot	10
16	Motor Spares			Lot	4
17	Transformer, Battery, Switch Gear, Cable, Lamp etc. Spares			Lot	86
18		Liquid oxidation Catalyst for spent caustic regeneration	1.5	MT	2.18
19		Anti Oxidant (AO 1010) Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	980	MT	40.15
20		Anti Oxidant AO 168/ AO9	1565	MT	42
21		AO1076 (Octadecyl β - (3,5-di- tert -butyl-4-hydroxy phenyl)-propionate	96	MT	3.8
22		ATF Merox Catalyst - Pre impregnated activated charcoal	36	M3	0.81
23		Benzene hydrogenation catalyst for ISOM unit	2.1	MT	2.55
24		CAB catalyst	16	MT	2.65
25		CAB-2 catalyst (Blend of vanadium oxytrichloride & titanium tetrachloride 50/50)	31	MT	4.65
26		Carbon Monoxide (CO) promoter catalyst additive for FCC Unit	16	MT	5.87
27		Catalyst for DCU LPG Merox Unit	547	L	0.28
28		Hindered amine light stabilizer (HALS) - Chimassorb 944	9	MT	0.93
29		Claus Catalyst (Al based)	151.2	M3	1.45
30		Claus Catalyst charge for Sulphur Recovery Unit (SRU)	22	M3	0.71
31		Chloride guard adsorbent for Continuous Catalytic Reforming Unit (CCRU) stabilizer feed	30.5	MT	0.9
32		2-Hydroxy-4-n-octoxybenzophenone (Cyasorb 531/ UV-1)	6	MT	0.75
33		Cyclo-Hexyl Methyl Methoxysilane (DONOR C)	33	MT	3.52
34		Di-(Cyclo-Pentyl-Di-Methoxy-Silane (DONOR D)	3	MT	1.21
35		Slip additives (Erucamide)	110	MT	4.7
36		Ethylene drying and CO2 removal bed (Adsorbant)	8	MT	0.37
37		Ethylene drying and CO2 removal bed (Foxed) for PP Unit	3	MT	0.43
38		Fluidized Catalytic Cracking Catalyst	4435	MT	153.25
39		Grease (VASELINE)	27	MT	0.72
40		Hydrotreating and Hydrocracking catalyst for Hydrocracking unit	320	MT	80.25
41		Hydrotreating Catalyst for DHD1 unit	478	MT	80.4
42		ISOM catalyst	24	MT	35
43		Liquid oxidation Catalyst for spent caustic regeneration	1.59	MT	2.18
44		Low temp. hydrogenation catalyst (Tail Gas Treatment Unit)	21.57	MT	1.77
45		Molecular sieves-desiccant (sodium-potassium-alumino silicate)	47.6	MT	1.25
46		Optical brightener	1	MT	0.62
47		PEPQ (Phosphorous trichloride, reaction products with 1,1-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol) (secondary antioxidant)	186	MT	19.80
48		Peroxide-101 (2, 5 Dimethyl-2,5-di (tert-butyl-peroxy) hexane)	92	MT	8.91
49		PG/Pelargonic acid/ C8-C10 fatty acid	330	MT	9.5

50	Chemicals, Catalyst & additives	PP Catalyst. A composition of Magnesium Chloride and 1,2 Benzenedicarboxylic acid, 1,2 Bis[2-chloro-1-(chloromethyl)ethyl] ester.	7.5	MT	24.20
51		PPA (Polymer Processing Additive)	40	MT	5.29
52		Propylene drying and CO2 removal bed for PP unit (Fixed bed)	9	MT	0.24
53		Silica gel-desiccant (Compound of Silicon dioxide)	187	MT	4.30
54		T Fuel & U-Fuel for analysis of Cetane number	820	Ltr	0.21
55		UV stabilizer 622	150	MT	8.80
56		ZN-180M (Avant CATALYST) or equivalent	240	Kg	0.75
57		ZSM-5 catalyst	100	MT	8.74
58		Primary Reference Fuel (PRF) {ISO-Octane & n heptane}	880	Kg	0.11
59		ATF (Aviation Turbine fuel) Merox catalyst - Pre impregnated activated charcoal	36	M ³	0.81
60		DSTD (distearyl thiodipropionate) - acts as a secondary antioxidant for PP polymers.	65	MT	2.30
61		Speciality Grease - Mixture of higher paraffin hydrocarbon used as catalyst protection in Spheripol PP technology for production of Polypropylene.	15	MT	0.40
62		Magnesium Aluminium Hydroxide Carbonate Hydrate (DHT 4A/Hycite 713) - used in reaction for acid scavenging in polymer production and processing systems.	85	MT	1.80
63		Alkyl Amine Ethoxylate (ATMER 163) - for neutralization of Catalyst & Co catalyst and works as anti-static agent.	45	MT	2.20
64		Anitoxidant AO 3114(1,3,5-Tris(3,5-di-tert-butyl-4-hydroxy benzyl)-s-triazine-2,4,6-(1H,3H,5H)trione) - specialized vis-breaking chemical used for specific PP grade	28	MT	1.33
65		Non-Aromatic catalyst batch mineral oil (MINERAL OIL) - used for diluting Donor in order to have better accuracy of the flow measure and also used for flushing in TEAL area.	70	MT	1.45
66		HDPE consumable polymerization Catalyst - used for polymerization reaction for production of specific grade of High density polyethylene from Ethylene	8	MT	21.60
67		Antioxidant (AO-1330) - prevents polymer from degradation caused by exposure to heat, ultraviolet radiation (UV) and mechanical shear	46	MT	4.8
68		Desiccant for ethylene guard bed (Fixed bed for ethylene purification) - used for removal of Carbon monoxide, carbon dioxide, moisture from Ethylene feed in Swing unit to Ultra low levels.	63	MT	3.35
69		ST65692 (Biphenyl) -approved additive Packages required for manufacturing of Servo Duotherm S required at Panipat Refinery	60	MT	1.20
70		Mixed Butylated Phenol Antioxidant (ST4064) - used in blending in many lubricants	87.3	MT	1.66
71		Hydrogenated Terphenyl (ST58606) - approved additive Packages required for manufacturing of Servotherm SHT 32 required by IOCL Refinery.	304	MT	9.09

72		TEAL	18	MT	0.72
73	Mechanical Stores	Cast Air Preheater Module / Cast & Glass Air Preheater Modules / Glass Air Pre-Heater Modules	1	No	1.18
74		Cutter Blades of Extruder	1600	No	2.19
75		Hydrogen Tubular Reformer Catalyst Tubes	36	No	3.61
76		Rotary Tight Shut off Valve	4	No	0.60
77		CD (Di- ethyl aluminum chloride)	30	MT	1.12
78	Chemicals, Catalyst & additives	CJ (Di- ethyl aluminum ethoxide)	30	MT	2.56
79	Chemicals, Catalyst & additives	GMS-90	250	MT	3.3
80	Chemicals, Catalyst & additives	Base FCC catalyst for INDMAX Unit.	1170	MT	34.5
81	Chemicals, Catalyst & additives	DMDS	350	MT	13.5
82	Chemicals, Catalyst & additives	RM 68 Master batch	110	MT	10.5
83	Chemicals, Catalyst & additives	MIBK (METHYL ISOBUTYL KETONE)	700	MT	22.05
84	Mechanical Stores	Radiant Coils	2	Set	38.26
85	Chemicals, Catalyst & additives	Hydrogenation Catalyst (Activated Alumina impregnated with Cobalt and Molybdenum Oxides).	52.3	M3	2.79
86	Chemicals, Catalyst & additives	Liquid oxidation catalyst for FCC Indmax Unit	555	Kg	0.83
87	Chemicals, Catalyst & additives	Hydro treating catalyst for DHDS Unit	56	MT	6.66
88		ISO-Octane	48	MT	1.17
89	Chemicals, Catalyst & additives	Mineral Oil (White Oil)	205	MT	6.22

Procurement Projected - Capex and Repair & Maint - Pipelines

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Strainer (Nos)			Nos.	
2	Transfer Pump (Nos)			Nos.	
3	ACDB Panel (Nos)			Nos.	
4	API 6D Ball Valves (Nos)			Nos.	
5	API 6D Valves (Nos)			Nos.	
6	Ball Valve (Nos)			Nos.	
7	Basket Strainer (Nos)			Nos.	
8	Control valve (Nos)			Nos.	
9	EEE (Nos)			Nos.	
10	Emergency evacuation equipment (Nos)			Nos.	
11	Engine Spares			Lot	15.50
12	ER Probe(Nos)			Nos.	
13	F/F PUMP, Jockey pumps, water filling pumps(Nos)			Nos.	
14	Fire Fighting Pipes (km)			Km	
15	Fire Fighting Pump (Nos)			Nos.	
16	Flow Tee (Nos)			Nos.	
17	Globe Valve (Nos)			Nos.	
18	Heavy duty access Mats			Lot	
19	High Mast(Nos)			Nos.	
20	HOT crane (Nos)			Nos.	
21	HT Capacitor Panel(Nos)			Nos.	
22	HT Panel(Nos)			Nos.	
23	HT/LT/Control cables(km)			Km	
24	Instrumentation, Control & SCADA System (Nos)			Nos.	
25	Insulating coupling (Nos)			Nos.	
26	Jockey pump (Nos)			Nos.	
27	LT DG(Nos)			Nos.	
28	LT Panel(Nos)			Nos.	
29	Mainline pumping Unit (Nos)			Nos.	
30	Marine Hoses for SPM			Nos.	30.00
31	Mechanical Pipe End connector+ Standard/Long seal Leak clamps+ Encapsulating Leak Clamps			Nos.	3.95
32	Metering skid assembly (consisting of Filtration, Metering and Pressure Reduction units) of various sizes for providing connectivity to CGD			Nos.	
33	Entities from Gas pipelines and augmentation of existing facilities (Nos)			Nos.	
34	Metering Skid Ph-III(Nos)			Nos.	
35	Metering Skid(Nos)			Nos.	
36	Misc. fire fighting equipment (Nos)			Nos.	
37	NRPL Mainline pumping unit Replacement			Nos.	70.00

39	Other Marine Spares			Nos.	9.32
40	pipe fitting(Nos)			Nos.	
41	Pipe (km)			Nos.	
42	Remote operated Valve (Nos)			Nos.	
43	Scraper Barrel			Nos.	
44	Separator Filter (Nos)			Nos.	
45	Small size (<4") misc. valve (Nos)			Nos.	
46	SRV (Nos)			Nos.	
47	Station pipes(km)			Nos.	
48	Steel Pipe (KM)			Km	
49	Steel Plate (MT)			Nos.	
50	sump pump and tank (Nos)			Nos.	
51	Swing check valve (Nos)			Nos.	
52	Telecom System (comprising of DC power, Networking system, CCTV system, Telephone system, OFC, HDPE, etc.)(Nos)			Nos.	
53	Transformer(Nos)			Nos.	
54	Vadinar SPM Replacement project				
55	1. Buoy & accessories			Nos.	
	2. Concrete Coated Pipe			Lot	4.00
	Valves			Lot	
	VALVES of all types(Nos)			Nos.	
	VFD (Nos)			Nos.	

Procurement Projected _ Marketing - LPG Group

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	LPG Pump		5	Nos.	3.7
2	LPG Compressor		3	Nos.	1.09
3	Air Compressor		4	Nos.	0.61
4	Air Dryer		2	Nos.	0.35
5	DG Set		1	Nos.	0.38
6	Fire Engine		3	Nos.	0.52
7	Valve change without Evacuation Machine		3	Nos.	0.8
8	LPG Loading arm		16	Nos.	0.5
9	Carousel		1	Nos.	3.39
10	Computers		0	Nos.	0
11	Additive dosing machines		0	Nos.	0
12	Carousal Cards in Nos.		400	Nos.	2.80
13	Mech Seals (Refurbishing) Nos.for LPG Pump		100	Nos.	3.00
14	Mech Seals New in Nos. for LPG Pump		25	Nos.	2.00
15	Valves / Flanges / Gaskets / Spares in Nos.		330	Nos.	8.25
16	Cables (Control / Power) in RMs		33000	Nos.	0.50
17	Pressure / Temp Transmitters/Gauges in Nos.		220	Nos.	2.20
18	Fire Engine / DG / DC Batteries in Nos.		3600	Nos.	5.40
19	Conveyor Chain in RM		44000	Nos.	5.28
20	Air Ends of Screw Compressors		44	Nos.	2.20
21	Spares (Filters & Accessories) Air Comp in Nos.		550	Nos.	1.38
22	LPG Vap Comp Seals / valves / Plates		330	Nos.	0.99

23	Lights and Fixtures / Bulbs / glands / JB's / Switches		12000	Nos.	1.20
24	Relays / Fuses		5500	Nos.	1.10
25	Printer Cartridges		650	Nos.	0.33
26	Sprockets / Cylinders / Shafts / wearing strips / Pneumatic tubing / connectors		24000	Nos.	4.80
27	Misc Spares / Car (sensors / connectors / cables etc)		210	Nos.	2.10
28	TLD / TLF Spares		880	Nos.	2.20
29	Structural steel for Conv / Misc Works in MT		450	Nos.	1.71
30	Diesel / Fire Engine Spares / filters / glands		720	Nos.	5.04
31	Spares for Level gauges / transmitters		330	Nos.	3.3
32	Fire / SCADA / GMS Panel Spares / MIMIC / sensors / transmitter		320	Nos.	1.6
33	CCTV spares / modules		110	Nos.	1.65
34	Load cells for weigh bridges / weighing scales / carousals		1100	Nos.	2.75
35	Centering Arms of carousals		2500	Nos.	0.30
Procurement of LPG Cylinders & P Regulator					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	14.2 Kg Cylinders (Including New & Replacement)		6300000	Nos.	803.02
2	19 Kg Cylinders (Including New & Replacement)		800000	Nos.	140.04
3	47.5 Kg Cylinders (Including New & Replacement)		50000	Nos.	19.26
4	5 Kg Cylinders (Including New & Replacement)		1000000	Nos.	86.67
5	425 KG Cylinders		3000	Nos.	19.76
6	Pressure Regulators		3500000	Nos.	50.70
7	Self Closing Valve		20800000	Nos.	175.00
Procurement Projected _ Marketing - Lubes					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Synthetic base oil Poly alfa olefin 6 CST		520	MT	13.77
2	ST5014 (Lithium Hydroxide Monohydrate)		300	MT	18.99
3	ST56058 (PIB 1000)		2359	MT	26.47
4	Synthetic base oil Poly alfa olefin 100 CST, PAO 100(ST 55580)		228.5	MT	9.00
5	PIB of higher molecular wt.(ST 56032/ST 56036)		277	MT	4.42
Procurement Projected _ Pipelines					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Marine Hoses		60	Nos.	24

FINANCIAL YEAR 2024 - 25
Capex Procurement Projected _
Refineries

Sl.No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Vessels/Drums/Tanks		-	Nos	-
2	Pumps		-	Nos	-
3	Reactors		-	Nos	-
4	Column/Column Internals/Column Modification		-	Nos	-
5	Heat Ex/Air coolers/Fin Fan Coolers		-	Nos	-
6	Filters		-	Nos	-
7	Instrumentation items (DCS, PLC, Analyser,,sensors,, Flowmeter,Transmitter etc.)		-	LOT	-
8	Instrument Cables		-	LOT	-
9	Electrical Items (Transformer, Switchboard,Switch gears, HV/MV Boards,Motors,Hoist,PFIC Panel,VFD,Genset)		-	LOT	-
10	Electrical Cables		-	LOT	-
11	Compressors/Blowers/Fans		-	Nos	-
12	Heaters & Stacks		-	Nos	-
13	Bulk(Pipe/Fittings/Flanges/Valve)		-	LOT	-
14	Package Items(HVAC,ETP,Refrigeration,Cooling Tower,DI Guard,Chlorine Injection,Chemical Injection,Side Stream Filter,Ethylene BOG,TEG Borelling,Flare,Communication Mgmt Sytem,Nitrogen Cooling System,Control Monitoring System,Ambience Air Monitoring system,PCK metering Skid,Cathodic Protectin System,FDAS system,CCTV,Custody Transfer Metering Skid,Clean Agent System)		-	LOT	-
15	Fire Fighting system/equipment/package , Foam Concentrate, Manual & Remote Operated High Volume Longe Range Monitor with Accessories		-	LOT	-
16	Incinerator & Instr. Components		-	Nos	-
17	Mech items :EOT Crane,Forklift,Weigh Bridge,Industrial Lift,Belt & Screw conveyors/Dock leveller		-	Nos	-
18	Steam Turbine		-	Nos	-
19	Rotary Valves/Safety Valves/Control Valves/On-off Valves/Emergency Vent Valves/Shutdown Valves		-	LOT	-
20	Mixers & Agitators		-	Nos	-
21	Driers		-	Nos	-
22	Separators		-	Nos	-
23	Boiler		-	Nos	-
24	Lab Equipment		-	Nos	-
25	Pig Launcher & Pig Receiver		-	Nos	-
26	Marine Loading Arm		-	Nos	-
27	Inert Ceramic balls		-	LOT	-
28	Sample Coolers (PI) & Sample Bombs (PE)		-	Nos	-
29	Mounded Bullet		-	Nos	-
30	Spare Components (Compressor/Pumps/Feed Coalescer)		-	LOT	-
31	Miscellaneous items (including FR approved project)		-	LOT	-
35	CLARIANT OleMax 101 (8mm Spheres)		62588	Kgs	49.5
	Support Balls (Ceramic/Alumina) - 12 mm Size		5460	Kgs	

36	Treater Adsorbent		1	Lot	13.2
37	Chloride Guard Bed Adsorbent		1	Lot	0.72
38	Dryer treater Adsorbent		1	Lot	9.6
Procurement Projected - For Repair & Maintenance of Refineries					
Sl.No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Pump Spares			Lot	53
2	Mechanical Seal Spares			Lot	62
3	Bearings			Lot	5
4	Turbine Spares			Lot	129
5	Steam Engine Spares			Lot	1
6	Furnace Spares			Lot	16
7	Compressor Spares			Lot	67
8	Fan & Blower Spares			Lot	7
9	Agitator & Mixer Spares			Lot	2
10	ETP,LPG Plant Equipment Spares			Lot	13
11	Air Conditioner Spares			Lot	3
12	Heat Exchanger Spares			Lot	51
13	Column/ Reactor Spares			Lot	38
14	Pipe & Pipe Fittings			Lot	140
15	Gear Box Spares			Lot	10
16	Motor Spares			Lot	5
17	Transformer, Battery, Switch Gear, Cable, Lamp etc. Spares			Lot	88
18		Liquid oxidation Catalyst for spent caustic regeneration	1.5	MT	2.18
19		Anti Oxidant (AO 1010) Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	980	MT	42.16
20		Anti Oxidant AO 168/ AO9	1565	MT	44.11
21		AO1076 (Octadecyl β - (3,5-di- tert -butyl-4-hydroxy phenyl)-propionate	96	MT	3.8
22		ATF Merox Catalyst - Pre impregnated activated charcoal	36	M3	0.81
23		Benzene hydrogenation catalyst for ISOM unit	2.1	MT	2.55
24		CAB catalyst	16	MT	2.65
25		CAB-2 catalyst (Blend of vanadium oxytrichloride & titanium tetrachloride 50/50)	31	MT	4.65
26		Carbon Monoxide (CO) promoter catalyst additive for FCC Unit	16	MT	5.87
27		Catalyst for DCU LPG Merox Unit	547	L	0.28
28		Hindered amine light stabilizer (HALS) - Chimassorb 944	9	MT	0.93
29		Claus Catalyst (Al based)	151.2	M3	1.45
30		Claus Catalyst charge for Sulphur Recovery Unit (SRU)	22	M3	0.71
31		Chloride guard adsorbent for Continuous Catalytic Reforming Unit (CCRU) stabilizer feed	30.5	MT	0.9
32		Z-Hydroxy-4-n-octoxybenzophenone (Cyasorb 531/ UV-1)	6	MT	0.75
33		Cyclo-Hexyl Methyl Methoxysilane (DONOR C)	33	MT	3.69
34		Di-ICyclo-Pentyl-Di-Methoxy-Silane (DONOR D)	3	MT	1.21
35		Slip additives (Erucamide J)	110	MT	4.7
36		Ethylene drying and CO2 removal bed (Adsorbent)	8	MT	0.37
37		Ethylene drying and CO2 removal bed (Foxed) for PP Unit	3	MT	0.43
38		Fluidized Catalytic Cracking Catalyst	4435	MT	160.91
39		Grease (VASELINE)	27	MT	0.72
40		Hydrotreating and Hydrocracking catalyst for Hydrocracking unit	320	MT	80.25
41		Hydrotreating Catalyst for DHDt unit	478	MT	80.4
42		ISOM catalyst	24	MT	35
43		Liquid oxidation Catalyst for spent caustic regeneration	1.59	MT	2.18
44		Low temp. hydrogenation catalyst (Tail Gas Treatment Unit)	21.57	MT	1.77
45		Molecular sieves-desiccant (sodium-potassium-alumino silicate)	47.6	MT	1.25
46		Optical brightener	1	MT	0.62
47		PEPQ (Phosphorous trichloride, reaction products with 1,1-biphenyl and 2,4-bis(1,1-	186	MT	19.80

		dimethylethyl)phenol) (secondary antioxidant)			
48	Chemicals, Catalyst & additives	Peroxide-101 (2, 5 Dimethyl-2,5-di (tert-butyl-peroxy) hexane)	92	MT	8.91
49		PG/Pelargonic acid/ C8-C10 fatty acid	330	MT	9.50
50		PP Catalyst. A composition of Magnesium Chloride and 1,2 Benzenedicarboxylic acid, 1,2 Bis[2-chloro-1- (chloromethyle)ethyl] ester.	7.5	MT	24.20
51		PPA (Polymer Processing Additive)	40	MT	5.29
52		Propylene drying and CO2 removal bed for PP unit (Fixed bed)	9	MT	0.24
53		Silica gel-desiccant (Compound of Silicon dioxide)	187	MT	4.30
54		T Fuel & U-Fuel for analysis of Cetane number	820	Ltr	0.21
55		UV stabilizer 622	150	MT	8.80
56		ZN-180M (Avant CATALYST) or equivalent	240	Kg	0.75
57		ZSM-5 catalyst	100	MT	8.74
58		Primary Reference Fuel (PRF) {ISO-Octane & n heptane}	880	Kg	0.11
59		ATF (Aviation Turbine fuel) Merox catalyst – Pre impregnated activated charcoal	36	M ³	0.81
60		DSTDP (distearyl thiodipropionate) - acts as a secondary antioxidant for PP polymers.	65	MT	2.30
61		Speciality Grease - Mixture of higher paraffin hydrocarbon used as catalyst protection in Spheripol PP technology for production of Polypropylene.	15	MT	0.40
62		Magnesium Aluminium Hydroxide Carbonate Hydrate (DHT 4A/Hycite 713) -used in reaction for acid scavenging in polymer production and processing systems.	85	MT	1.80
63		Alkyl Amine Ethoxylate (ATMER 163) - for neutralization of Catalyst & Co catalyst and works as anti-static agent.	45	MT	2.20
64		Anitoxidant AO 3114(1,3,5-Tris(3,5-di-tert-butyl-4-hydroxy benzyl)-s-triazine-2,4,6-(1H,3H,5H)trione) - specialized vis- breaking chemical used for speci fic PP grade	28	MT	1.33
65		Non-Aromatic catalyst batch mineral oil (MINERAL OIL) - used for diluting Donor in order to have better accuracy of the flow measure and also used for flushi ng in TEAL area.	70	MT	1.45
66		HDPE consumable polymerization Catalyst - used for polymerization reaction for production of specific grade of High density polyethylene from Ethylene	8	MT	21.60
67		Antioxidant (AO-1330) -prevents polymer from degradation caused by exposure to heat, ultraviolet radiation (UV) and mechanical shear	46	MT	4.8
68		Desiccant for ethylene guard bed (Fixed bed for ethylene purification) - used for removal of Carbon monoxide, carbon dioxide, moisture from Ethylene feed in Swing unit to Ultra low levels.	63	MT	3.35
69		ST65692 (Biphenyl) -approved additive Packages required for manufacturing of Servo Duotherm S required at Panipat Refinery	60	MT	1.20
70		Mixed Butylated Phenol Antioxidant (ST4064) - used in blending in many lubricants	87.3	MT	1.66
71		Hydrogenated Terphenyl (ST58606) -approved additive Packages required for manufacturing of Servotherm SHT 32 required by IOCL Refinery.	304	MT	9.09
72		TEAL	18	MT	0.72

73	Mechanical Stores	Cast Air Preheater Module / Cast & Glass Air Preheater Modules / Glass Air Pre-Heater Modules	1	No	1.18
74		Cutter Blades of Extruder	1600	No	2.19
75		Hydrogen Tubular Reformer Catalyst Tubes	36	No	3.61
76		Rotary Tight Shut off Valve	4	No	0.60
77	Chemicals, Catalyst & additives	CD (Di- ethyl aluminum chloride)	30	MT	1.12
78	Chemicals, Catalyst & additives	CJ (Di- ethyl aluminum ethoxide)	30	MT	2.60
79	Chemicals, Catalyst & additives	GMS-90	250	MT	3.3
80	Chemicals, Catalyst & additives	Base FCC catalyst for INDMAX Unit.	1170	MT	34.5
81	Chemicals, Catalyst & additives	DMDS	450	MT	16.27
82	Chemicals, Catalyst & additives	RM 68 Master batch	110	MT	11.02
83	Chemicals, Catalyst & additives	MIBK (METHYL ISOBUTYL KETONE)	700	MT	23.15
87	Chemicals, Catalyst & additives	Liquid oxidation catalyst for FCC Indmax Unit	555	Kg	0.87
88	Chemicals, Catalyst & additives	Hydro treating catalyst for DHDS Unit	56	MT	6.99
89		ISO-Octane	48	MT	1.23
90	Chemicals, Catalyst & additives	Mineral Oil (White Oil)	205	MT	6.53

Procurement Projected - Capex and Repair & Maint - Pipelines

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Strainer (Nos)			Nos.	
2	Transfer Pump (Nos)			Nos.	
3	ACDB Panel (Nos)			Nos.	
4	API 6D Ball Valves (Nos)			Nos.	
5	API 6D Valves (Nos)			Nos.	
6	Ball Valve (Nos)			Nos.	
7	Basket Strainer (Nos)			Nos.	
8	Control valve (Nos)			Nos.	
9	EEE (Nos)			Nos.	
10	Emergency evacuation equipment (Nos)			Nos.	
11	Engine Spares			Lot	15.50
12	ER Probe(Nos)			Nos.	
13	F/F PUMP, Jockey pumps, water filling pumps(Nos)			Nos.	
14	Fire Fighting Pipes (km)			Km	
15	Fire Fighting Pump (Nos)			Nos.	
16	Flow Tee (Nos)			Nos.	
17	Globe Valve (Nos)			Nos.	
18	Heavy duty access Mats			Lot	
19	High Mast(Nos)			Nos.	
20	HOT crane (Nos)			Nos.	
21	HT Capacitor Panel(Nos)			Nos.	
22	HT Panel(Nos)			Nos.	
23	HT/LT/Control cables(km)			Km	
24	Instrumentation, Control & SCADA System (Nos)			Nos.	
25	Insulating coupling (Nos)			Nos.	
26	Jockey pump (Nos)			Nos.	
27	LT DG(Nos)			Nos.	
28	LT Panel(Nos)			Nos.	
29	Mainline pumping Unit (Nos)			Nos.	
30	Marine Hoses for SPM			Nos.	48.00
31	Mechanical Pipe End connector+ Standard/Long seal Leak clamps+ Encapsulating Leak Clamps			Nos.	1.22
32	Metering skid assembly (consisting of Filtration, Metering and Pressure Reduction units) of various sizes for providing connectivity to CGD Entities from Gas pipelines and augmentation of existing facilities (Nos)			Nos.	
33	Metering Skid Ph-III(Nos)			Nos.	
34	Metering Skid(Nos)			Nos.	
35	Misc. fire fighting equipment (Nos)			Nos.	
36	NRPL Mainline pumping unit Replacement			Nos.	
37	Other Marine Spares			Nos.	11.30
38	pipe fitting(Nos)			Nos.	
39	Pipe (km)			Nos.	
40	Remote operated Valve (Nos)			Nos.	
41	Scraper Barrel			Nos.	
42	Separator Filter (Nos)			Nos.	
43	Small size (<4") misc. valve (Nos)			Nos.	
44	SRV (Nos)			Nos.	

45	Station pipes(km)			Nos.	
46	Steel Pipe (KM)			Km	
47	Steel Plate (MT)			Nos.	
48	sump pump and tank (Nos)			Nos.	
49	Swing check valve (Nos)			Nos.	
50	Telecom System (comprising of DC power, Networking system, CCTV system, Telephone system, OFC, HDPE, etc.)(Nos)			Nos.	
51	Transformer(Nos)			Nos.	
52	Vadinar SPM Replacement project 1. Buoy & accessories 2. Concrete Coated Pipe			Nos.	
53	Valves			Lot	4.00
54	VALVES of all types(Nos)			Nos.	
55	VFD (Nos)			Nos.	

Procurement Projected _ Marketing - LPG Group

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	LPG Pump		8	Nos.	6.24
2	LPG Compressor		4	Nos.	1.51
3	Air Compressor		5	Nos.	0.8
4	Air Dryer		0	Nos.	0
5	DG Set		1	Nos.	0.39
6	Fire Engine		4	Nos.	0.73
7	Valve change without Evacuation Machine		5	Nos.	1.4
8	LPG Loading arm		32	Nos.	1.04
9	Carousel		1	Nos.	3.54
10	Computers		0	Nos.	0
11	Additive dosing machines		0	Nos.	0
12	Carousal Cards in Nos.		400	Nos.	2.80
13	Mech Seals (Refurbishing) Nos.for LPG Pump		100	Nos.	3.00
14	Mech Seals New in Nos. for LPG Pump		25	Nos.	2.00
15	Valves / Flanges / Gaskets / Spares in Nos.		330	Nos.	8.25
16	Cables (Control / Power) in RMs		33000	Nos.	0.50
17	Pressure / Temp Transmitters/Gauges in Nos.		220	Nos.	2.20
18	Fire Engine / DG / DC Batteries in Nos.		3600	Nos.	5.40
19	Conveyor Chain in RM		44000	Nos.	5.28
20	Air Ends of Screw Compressors		45	Nos.	2.25
21	Spares (Filters & Accessories) Air Comp in Nos.		550	Nos.	1.38
22	LPG Vap Comp Seals / valves / Plates		330	Nos.	0.99
23	Lights and Fixtures / Bulbs / glands / JBs / Switches		12000	Nos.	1.20
24	Relays / Fuses		5500	Nos.	1.10
25	Printer Cartridges		650	Nos.	0.33
26	Sprockets / Cylinders / Shafts / wearing strips / Pneumatic tubing / connectors		24000	Nos.	4.80
27	Misc Spares /Car (sensors / connectors / cables etc)		210	Nos.	2.10
28	TLD / TLF Spares		880	Nos.	2.20
29	Structural steel for Conv / Misc Works in MT		450	Nos.	1.71
30	Diesel / Fire Engine Spares / filters / glands		720	Nos.	5.04
31	Spares for Level gauges / transmitters		330	Nos.	3.3
32	Fire / SCADA / GMS Panel Spares / MIMIC / sensors / transmitter		320	Nos.	1.6
33	CCTV spares / modules		110	Nos.	1.65
34	Load cells for weigh bridges / weighing scales / carousals		1100	Nos.	2.75
35	Centering Arms of carousals		2500	Nos.	0.30

Procurement of LPG Cylinders & P Regulator

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	14.2 Kg Cylinders (Including New & Replacement)		6300000	Nos.	803.02
2	19 Kg Cylinders (Including New & Replacement)		800000	Nos.	140.04
3	47.5 Kg Cylinders (Including New & Replacement)		40000	Nos.	15.41
4	5 Kg Cylinders (Including New & Replacement)		1500000	Nos.	130.01
5	425 KG Cylinders		5000	Nos.	32.93
6	Pressure Regulators		3500000	Nos.	50.70
7	Self-Closing Valve		21200000	Nos.	178.00

Procurement Projected _ Marketing - Lubes

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Synthetic base oil Poly alfa olefin 6 CST		550	MT	14.56
2	ST5014 (Lithium Hydroxide Monohydrate)		325	MT	21.60
3	ST56058 (PIB 1000)		2477	MT	29.18
4	Synthetic base oil Poly alfa olefin 100 CST, PAO 100(ST 55580)		280	MT	11.51
5	PIB of higher molecular wt.(ST 56032/ST 56036)		291	MT	4.64
Procurement Projected_Pipelines					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Marine Hoses		100	Nos.	40

Capex Procurement Projected _ Refineries

Sl. No	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Vessels/Drums/Tanks		324	Nos.	240
2	Pumps		659	Nos.	386
3	Reactors		28	Nos.	168
4	Column/Column Internals/Column Modification		79	Nos.	368
5	Heat Ex/Air coolers/Fin Fan Coolers		473	Nos.	623
6	Filters		11	Nos.	3
7	Instrumentation items (DCS, PLC, Analyser,sensors, Flowmeter,Transmitter etc.)		LOT	LOT	125
8	Instrument Cables		LOT	LOT	2
	Electrical Items (Transformer, Switchboard,Switch gears, HV/MV Boards,Motors,Hoist,PFIC Panel,VFD,Genset)		LOT	LOT	104
10	Electrical Cables		LOT	LOT	10
11	Compressors/Blowers/Fans		31	Nos.	350
12	Heaters & Stacks		14	Nos.	257
13	Bulk(Pipe/Fittings/Flanges/Valve)		LOT	LOT	144
14	Package Items(HVAC,ETP,Refrigeration,Cooling Tower,DI Guard,Chlorine Injection,Chemical Injection,Side Stream Filter,Ethylene BOG,TEG Borelling,Flare,Communication Mgmt Sytem,Nitrogen Cooling System,Control Monitoring System,Ambience Air Monitoring system,PCK metering Skid,Cathodic Protection System,FDAS system,CCTV,Custody Transfer Metering Skid,Clean Agent System)		LOT	LOT	731
15	Fire Fighting system/equipment/package , Foam Concentrate, Manual & Remote Operated High Volume Long Range Monitor with Accessories		LOT	LOT	24
16	Incinerator & Instr. Components		13	Nos.	28
17	Mech items :EOT Crane,Forklift,Weigh Bridge,Industrial Lift,Belt & Screw conveyors/Dock leveller		17	Nos.	10
18	Steam Turbine			Nos.	
19	Rotary Valves/Safety Valves/Control Valves/On-off Valves/Emergency Vent Valves/Shutdown Valves		LOT	LOT	75
20	Mixers & Agitators		80	Nos.	19
21	Driers		3	Nos.	2
22	Separators		5	Nos.	4
23	Boiler		1	Nos.	6
24	Lab Equipment		34	Nos.	11
25	Pig Launcher & Pig Receiver		2	Nos.	1
26	Marine Loading Arm		1	Nos.	9
27	Inert Ceramic balls		LOT	LOT	1
28	Sample Coolers (PI) & Sample Bombs (PE)		54	Nos.	1

29	Mounded Bullet			Nos.	
30	Spare Components (Compressor/Pumps/Feed Coalescer)		LOT	LOT	24
31	Miscellaneous items (including FR approved project)		LOT	LOT	547
Procurement Projected - For Repair & Maintenance of Refineries					
Sl. No	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Pump Spares			Lot	57.6
2	Mechanical Seal Spares			Lot	67.2
3	Bearings			Lot	6
4	Turbine Spares			Lot	139.2
5	Steam Engine Spares			Lot	1.2
6	Furnace Spares			Lot	16.8
7	Compressor Spares			Lot	73.2
8	Fan & Blower Spares			Lot	8.4
9	Agitator & Mixer Spares			Lot	2.4
10	ETP,LPG Plant Equipment Spares			Lot	14.4
11	Air Conditioner Spares			Lot	2.4
12	Heat Exchanger Spares			Lot	55.2
13	Column/ Reactor Spares			Lot	40.8
14	Pipe & Pipe Fittings			Lot	152.4
15	Gear Box Spares			Lot	10.8
16	Motor Spares			Lot	4.8
17	Transformer, Battery, Switch Gear, Cable, Lamp etc. Spares		Lot	Lot	96
18	Chemicals, Catalyst & additives	Liquid oxidation Catalyst for spent caustic regeneration	1.5	MT	2.616
19		Anti Oxidant (AO 1010) Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	980	MT	44.26
20		Anti Oxidant AO 168/ AO9	1565	MT	46.31
21		AO1076 (Octadecyl β - (3,5-di- tert -butyl-4-hydroxy phenyl)-propionate	96	MT	3.8
22		ATF Merox Catalyst - Pre impregnated activated charcoal	36	M3	0.972
23		Benzene hydrogenation catalyst for ISOM unit	2.1	MT	3.06
24		CAB catalyst	16	MT	3
25		CAB-2 catalyst (Blend of vanadium oxytrichloride & titanium tetrachloride 50/50)	31	MT	5.58
26		Carbon Monoxide (CO) promoter catalyst additive for FCC Unit	16	MT	7.044
27		Catalyst for DCU LPG Merox Unit	547	L	0.336
28		Hindered amine light stabilizer(HALS) - Chimassorb 944	9	MT	1.116
29		Claus Catalyst (Al based)	151.2	M3	1.74
30		Claus Catalyst charge for Sulphur Recovery Unit (SRU)	22	M3	0.852
31		Chloride guard adsorbent for Continuous Catalytic Reforming Unit (CCRU) stabilizer feed	30.5	MT	1.08
32		2-Hydroxy-4-n-octoxybenzophenone (Cyasorb 531/ UV-1)	6	MT	0.9
33		Cyclo-Hexyl Methyl Methoxysilane (DONOR C)	33	MT	3.88
34		Di-ICyclo-Pentyl-Di-Methoxy-Silane (DONOR D)	3	MT	1.452
35		Slip additives (Erucamide)	110	MT	5.1
36		Ethylene drying and CO2 removal bed	8	MT	0.444

	(Adsorbant)			
37	Ethylene drying and CO2 removal bed (Foxed) for PP Unit	3	MT	0.516
38	Fluidized Catalytic Cracking Catalyst	4435	MT	168.96
39	Grease (VASELINE)	27	MT	0.864
40	Hydrotreating and Hydrocracking catalyst for Hydrocracking unit	320	MT	96.3
41	Hydrotreating Catalyst for DHDt unit	478	MT	96.48
42	ISOM catalyst	24	MT	42
43	Liquid oxidation Catalyst for spent caustic regeneration	1.59	MT	2.616
44	Low temp. hydrogenation catalyst (Tail Gas Treatment Unit)	21.57	MT	2.124
45	Molecular sieves-desiccant (sodium-potassium-alumino silicate)	47.6	MT	1.5
46	Optical brightener	1	MT	0.744
47	PEPQ (Phosphorous trichloride, reaction products with 1,1-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol) (secondary antioxidant)	186	MT	23.76
48	Peroxide-101 (2, 5 Dimethyl-2,5-di (tert-butyl-peroxy) hexane)	92	MT	10.692
49	PG/Pelargonic acid/ C8-C10 fatty acid	330	MT	10.56
50	PP Catalyst. A composition of Magnesium Chloride and 1,2 Benzenedicarboxylic acid, 1,2 Bis[2-chloro-1- (chloromethyl)ethyl] ester.	7.5	MT	29.04
51	PPA (Polymer Processing Additive)	40	MT	6.348
52	Propylene drying and CO2 removal bed for PP unit (Fixed bed)	9	MT	0.288
53	Silica gel-desiccant (Compound of Silicon dioxide)	187	MT	5.16
54	T Fuel & U-Fuel for analysis of Cetane number	820	Ltr	0.252
55	UV stabilizer 622	150	MT	10.56
56	ZN-180M (Avant CATALYST) or equivalent	240	Kg	0.9
57	ZSM-5 catalyst	100	MT	10.488
58	Primary Reference Fuel (PRF) {ISO-Octane & n heptane}	880	Kg	0.132
59	ATF (Aviation Turbine fuel) Merox catalyst – Pre impregnated activated charcoal	36	M3	0.972
60	DSTDP (distearyl thiodipropionate) - acts as a secondary antioxidant for PP polymers.	65	MT	2.76
61	Speciality Grease - Mixture of higher paraffin hydrocarbon used as catalyst protection in Spheripol PP technology for production of Polypropylene.	15	MT	0.48
62	Magnesium Aluminium Hydroxide Carbonate Hydrate (DHT 4A/Hycite 713) - used in reaction for acid scavenging in polymer production and processing systems.	85	MT	2.16
63	Alkyl Amine Ethoxylate (ATMER 163) - for neutralization of Catalyst & Co catalyst and works as anti- static agent.	45	MT	2.64
64	Antioxidant AO 3114(1,3,5-Tris(3,5-di-tert-butyl-4-hydroxy benzyl)-s-triazine-2,4,6-(1H,3H,5H)trione) - specialized vis-breaking chemical used for specific PP grade	28	MT	1.596
65	Non-Aromatic catalyst batch mineral oil (MINERAL OIL) - used for diluting Donor in order to have better accuracy of the flow measure and also used for flushing in TEAL area.	70	MT	1.74

66		HDPE consumable polymerization Catalyst - used for polymerization reaction for production of specific grade of High density polyethylene from Ethylene	8	MT	25.92
67		Antioxidant (AO-1330) -prevents polymer from degradation caused by exposure to heat, ultraviolet radiation (UV) and mechanical shear	46	MT	5.76
68		Desiccant for ethylene guard bed (Fixed bed for ethylene purification) - used for removal of Carbon monoxide, carbon dioxide, moisture from Ethylene feed in Swing unit to Ultra low levels.	63	MT	4.02
69		ST65692 (Biphenyl) -approved additive Packages required for manufacturing of Servo Duotherm S required at Panipat Refinery	60	MT	1.44
70		Mixed Butylated Phenol Antioxidant (ST4064) - used in blending in many lubricants	87.3	MT	1.992
71		Hydrogenated Terphenyl (ST58606) - approved additive Packages required for manufacturing of Servotherm SHT 32 required by IOCL Refinery.	304	MT	10.908
72	Mechanical Stores	Cast Air Preheater Module / Cast & Glass Air Preheater Modules / Glass Air Pre-Heater Modules	1	No	1.416
73		Cutter Blades of Extruder	1600	No	2.628
74		Hydrogen Tubular Reformer Catalyst Tubes	36	No	4.332
75		Rotary Tight Shut off Valve	4	No	0.72
76	Specialty Services	Benchmarking study for P-25 Project	1	No	2.4
77		License, Know-How, Process package, Catalyst(s), Proprietary equipment (if any) for production of Polyester Melt for continuous polymerization Unit along with project management consultancy services	1	Lot	214.8
78		Lining up of agency for platinum/palladium umpire analysis on limited global tender basis.	12	Lot	0.108
79		Loss On Ignition (%) and Platinum content (%) testing in Continuous Catalytic Reformer (CCR) fresh catalyst	1	No	0.048
80		Maintenance of Welded Type Plate combine feed Exchanger of CRU	1	No	2.052
81		Off the shelf "Online e-Modules on Leadership Competencies"	1000	No	1.104
82		Supply of Basic Design and Engineering Package (BDEP), Catalyst(s), Proprietary items and assistance services for quality Revamp of BS-VI FCC GDS at Gujarat Refinery	1	Lot	25.94
83		Supply of License, Basic Engineering and Design package and equipment and services	1	Lot	128.64
84		Assay analysis of spent catalyst - required to quantify precious metal i.e. Palladium content in Spent catalyst for settlement of quantity of recovery of precious metal from spent catalyst.	1	Lot	0.144
85	Chemicals, Catalyst & Additives	TEAL	18	MT	0.75
86	Chemicals, Catalyst & additives	CD (Di- ethyl aluminum chloride)	30	MT	1.20
87	Chemicals, Catalyst & additives	CJ (Di- ethyl aluminum ethoxide)	30	MT	2.68
88	Chemicals, Catalyst & additives	GMS-90	250	MT	3.8
89	Chemicals, Catalyst & additives	Base FCC catalyst for INDMAX Unit.	1170	MT	34.5
90	Chemicals, Catalyst & additives	DMDS	450	MT	17.09
91	Chemicals, Catalyst & additives	RM 68 Master batch	110	MT	11.58
92	Chemicals, Catalyst & additives	MIBK (METHYL ISOBUTYL KETONE)	700	MT	24.31

93	Mechanical Stores	Radiant Coils	2	Set	42.08
94	Chemicals, Catalyst & additives	Hydrogenation Catalyst (Activated Alumina impregnated with Cobalt and Molybdenum Oxides).	52.3	M3	3.07
95	Chemicals, Catalyst & additives	Liquid oxidation catalyst for FCC Indmax Unit	555	Kg	0.92
96	Chemicals, Catalyst & additives	Hydro treating catalyst for DHDS Unit	56	MT	7.34
97		ISO-Octane	48	MT	1.29
98		Steel Conveyor Belt	1	No.	1.83
99	Chemicals, Catalyst & additives	Mineral Oil (White Oil)	205	MT	6.86

Procurement Projected - Capex and Repair & Maint - Pipelines

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Strainer (Nos)				
2	Transfer Pump (Nos)				
3	ACDB Panel (Nos)		147	Nos.	19.27
4	API 6D Ball Valves (Nos)		644	Nos.	26.63
5	API 6D Valves (Nos)		147	Nos.	9.35
6	Ball Valve (Nos)		1027	Nos.	72.60
7	Basket Strainer (Nos)		60	Nos.	8.53
8	Control valve (Nos)		75	Nos.	14.76
9	EEE (Nos)		15.00	Nos.	6.13
10	Emergency evacuation equipment (Nos)		74	Nos.	23.98
11	Engine Spares		Lot	Lot	16.80
12	ER Probe(Nos)		59	Nos.	7.67
13	F/F PUMP, Jockey pumps, water filling pumps(Nos)				0.00
14	Fire Fighting Pipes (km)		0.175	Km	0.07
15	Fire Fighting Pump (Nos)		3	Nos.	0.60
16	Flow Tee (Nos)		99	Nos.	12.38
17	Globe Valve (Nos)		74	Nos.	1.22
18	Heavy duty access Mats		Lot	Lot	6.23
19	High Mast(Nos)		80	Nos.	9.59
20	HOT crane (Nos)		8	Nos.	10.73
21	HT Capacitor Panel(Nos)		5	Nos.	0.76
22	HT Panel(Nos)		5	Nos.	10.38
23	HT/LT/Control cables(km)		830	Km	1.82
24	Instrumentation, Control & SCADA System (Nos)		10	Nos.	13.81
25	Insulating coupling (Nos)		556	Nos.	4.60
26	Jockey pump (Nos)		2	Nos.	0.05
27	LT DG(Nos)		185	Nos.	4.55
28	LT Panel(Nos)		38	Nos.	6.00
29	Mainline pumping Unit (Nos)		22	Nos.	67.81
30	Marine Hoses for SPM			Nos.	96.00
31	Mechanical Pipe End connector+ Standard/Long seal Leak clamps+ Encapsulating Leak Clamps			Nos.	4.1
32	Metering skid assembly (consisting of Filtration, Metering and Pressure Reduction units) of various sizes for providing connectivity to CGD Entities from Gas pipelines and augmentation of existing facilities (Nos)		4	Nos.	9.1
33	Metering Skid Ph-III(Nos)		8	Nos.	43.04
34	Metering Skid(Nos)		4	Nos.	27.85
35	Misc. fire fighting equipment (Nos)		47	Nos.	27.90
36	NRPL Mainline pumping unit Replacement				
37	Other Marine Spares			Nos.	10.18
38	pipe fitting(Nos)		12730	Nos.	1.62
39	Pipe (km)		146.1	Nos.	134.03
40	Remote operated Valve (Nos)		23	Nos.	1.92
41	Scraper Barrel		72	Nos.	12.46
42	Separator Filter (Nos)		2	Nos.	3.24
43	Small size (<4") misc. valve (Nos)		103	Nos.	5.18
44	SRV (Nos)		1	Nos.	0.17
45	Station pipes(km)		2.3	Nos.	3.53
46	Steel Pipe (KM)		2078	Km	2352.00
47	Steel Plate (MT)		1680	Nos.	10.92

48	sump pump and tank (Nos)		1	Nos.	0.16
49	Swing check valve (Nos)		100	Nos.	2.62
50	Telecom System (comprising of DC power, Networking system, CCTV system, Telephone system, OFC, HDPE, etc.)(Nos)		10	Nos.	113.34
51	Transformer(Nos)		10	Nos.	74.52
52	Vadinar SPM Replacement project 1. Buoy & accessories 2. Concrete Coated Pipe			Nos.	
53	Valves		Lot	Lot	5
54	VALVES of all types(Nos)			Nos.	
55	VFD (Nos)		15	Nos.	24.00
56	Anti-Chafe Chains for Vadinar		14	No	0.97
57	Subsea Hoses for Paradip SPM-I		2	No	0.84

Procurement Projected _ Marketing - LPG Group

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	LPG Pump		14	Nos.	10.34
2	LPG Compressor		14	Nos.	6.77
3	Air Compressor		15	Nos.	2.30
4	Air Dryer		4	Nos.	0.77
5	DG Set		7	Nos.	3.47
6	Fire Engine		14	Nos.	1.92
7	Valve change without Evacuation Machine		4	Nos.	1.12
8	LPG Loading arm		16	Nos.	0.53
9	Carousel		20	Nos.	70.80
10	Computers		200	Nos.	1.20
11	Additive dosing machines		50	Nos.	10.80
12	Carousal Cards in Nos.		360	Nos.	3.02
13	Mech Seals (Refurbishing) Nos.for LPG Pump		93	Nos.	3.35
14	Mech Seals New in Nos. for LPG Pump		20	Nos.	1.92
15	Valves / Flanges / Gaskets / Spares in Nos.		270	Nos.	8.10
16	Cables (Control / Power) in RMs		27900	Nos.	0.50
17	Pressure / Temp Transmitters/Gauges in Nos.		186	Nos.	2.23
18	Fire Engine / DG / DC Batteries in Nos.		3100	Nos.	5.58
19	Conveyor Chain in RM		45500	Nos.	6.55
20	Air Ends of Screw Compressors		37	Nos.	2.22
21	Spares (Filters & Accessories) Air Comp in Nos.		465	Nos.	1.39
22	LPG Vap Comp Seals / valves / Plates		279	Nos.	1.01
23	Lights and Fixtures / Bulbs / glands / JBS / Switches		9300	Nos.	1.12
24	Relays / Fuses		4650	Nos.	1.12
25	Printer Cartridges		558	Nos.	0.34
26	Sprockets / Cylinders / Shafts / wearing strips / Pneumatic tubing / connectors		18600	Nos.	3.72
27	Misc Spares /Car (sensors / connectors / cables etc)		186	Nos.	2.23
28	TLD / TLF Spares		744	Nos.	2.23
29	Structural steel for Conv / Misc Works in MT		400	Nos.	1.82
30	Diesel / Fire Engine Spares / filters / glands		651	Nos.	5.47
31	Spares for Level gauges / transmitters		279	Nos.	3.35
32	Fire / SCADA / GMS Panel Spares / MIMIC / sensors / transmitter		279	Nos.	1.395
33	CCTV spares / modules		93	Nos.	1.67
34	Load cells for weigh bridges / weighing scales / carousals		900	Nos.	2.70
35	Centering Arms of carousals		2250	Nos.	0.32

Procurement of LPG Cylinders & P Regulator

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	14.2 Kg Cylinders (Including New & Replacement)		1100000	Nos.	1686.32
2	19 Kg Cylinders (Including New & Replacement)		900000	Nos.	168.05
3	47.5 Kg Cylinders (Including New & Replacement)		50000	Nos.	23.11
4	5 Kg Cylinders (Including New & Replacement)		2000000	Nos.	208.01
5	425 KG Cylinders		3000	Nos.	23.71
6	Pressure Regulators		7500000	Nos.	130.38
7	Self Closing Valve		1980000	Nos.	199.20

Procurement Projected _ Marketing - Lubes

Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement in Rs/Crores
1	Synthetic base oil Poly alfa olefin 6 CST		600	MT	15.89
2	ST5014 (Lithium Hydroxide Monohydrate)		325	MT	22.68
3	ST56058 (PIB 1000)		2601	MT	32.18
4	Synthetic base oil Poly alfa olefin 100 CST, PAO 100(ST 55580)		300	MT	12.95
5	PIB of higher molecular wt.(ST 56032/ST 56036)		306	MT	4.88
Procurement Projected Pipelines					
Sl. No.	Description of item	Broad specification Parameters	Quantity	Accounting Unit	Estimated Value of procurement In Rs/Crores
1	Marine Hoses		60	Nos	24