



PROCUREMENT PLAN

2021-2023

FOR

CRUDE OIL

&

PETROLEUM PRODUCTS

PREPARED & PRESENTED BY COMMERCIAL FUNCTION

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1 List of Abbreviations

AV Gas = Aviation Gasoline

ADNOC = Abu Dubai National Oil Company

BBL = Barrels

CPC = Ceylon Petroleum Corporation

CEB = Ceylon Electricity Board

DAP = Delivery at place

KG = Kilogram

MT = Metric Tons

Mn.Liters = Million liters

Ppm = Parts per million

SSCAPC = Special Standing Cabinet Appointed Procumbent Committee

SRC = Stock Review Committee

TEC = Technical Evaluation Committee

USD = United Standards Dollars

2 Executive Summary

2.1 Total Estimated Funds Requirement for 2021-2023 Imports

Table 1. Total Estimated Funds Requirement for 2021-2023 Imports

Year	Crude Cost (USD Million)	Cost of Refined Products (USD Million)	Total Import Cost of Crude oil & Refined Products (USD Million)
2021	721	1,778	2,499
2022	832	1,574	2,406
2023	834	1,592	2,426

Source: Based on the calculated data

2.2 Crude Oil Import Plan for 2021-2023

Table 2. Crude Oil Import Plan

Year	Crude Type	Required Quantity (MT)	Estimated Shipments	Estimated Delivery
2021	Murban Crude and Other Crude	1,669,500	18	02 Shipments per month
2022	Murban Crude and Other Crude	1,802,000	20	02 Shipments per month
2023	Murban Crude and Other Crude	1,802,000	20	02 Shipments per month

Throughput per day: 5,300 MT

Most feasible parcel size 90,000 MT/700,000 BBL

Source: Economics and scheduling forecasted data – 2021-2023

2.3 Refined Petroleum Products Import Requirement for 2021-2023

Table 3. Refined Petroleum Products Import Requirement for 2021-2023

Year		Gasoline 92 Octane	Gasoline 95 Octane	(Super) Gas Oil10 ppm	(Auto) Gas oil 500 ppm (With CEB)*	Jet/Kero	Fuel Oil*	Bitumen
2021	Forecasted Demand	1,225,148	177,770	81,236	2,125,052	574,624	836,569	27,788
	Forecasted Refinery production	168,889	-	-	568,544	300,510	436,590	25,088
	Total Quantity to be imported	1,056,259	177,770	81,236	1,556,508	274,114	399,977	2,700
2022	Forecasted Demand	1,238,826	178,034	108,427	2,253,656	761,200	878,395	27,788
	Forecasted Refinery production	182,308	-	-	591,226	324,360	471,240	25,088
	Total Quantity to be imported	1,056,518	178,034	108,427	1,662,430	436,840	407,155	2,700
2023	Forecasted Demand	1,322,114	190,702	122,840	2,333,529	766,956	878,395	27,788
	Forecasted Refinery production	182,308	-	-	621,226	324,360	471,240	25,088
	Total Quantity to be imported	1,139,806	190,702	122,840	1,712,303	442,596	407,155	2,700

Units in MT

* With CEB Forecasted Demand & Local Consumers' Annual Requirement

Source: Based on the Forecasted data

2.4 Forecasted Aviation Gasoline, Bitumen & Lubricant Demand for 2021-2023

Table 4. Refined Petroleum Products Import Requirement for 2021-2023

Year	Aviation Gasoline (MT)	Bitumen (MT)	Lubricant (Mn. Liters)
2021	264	2,700	-
2022	264	2,700	-
2023	264	2,700	-

Source: Based on the Commercial Function data

3 Term Tenders Scheduled during the period from 2021-2023

Table 5. Term Tenders Scheduled during the period from 2021-2023

Year	No	Term Contract Reference No.	Name of the Supplier	Total Shipments Planned under the contract	Total Shipments Allocated for next year
2021	1	BK/TERM/CRUDE OIL/MURBAN/ 2020-2021-R	Emirates National Oil Company (Singapore)	12	11
	2	BK/TERM/GAS OIL(0.05% M.S.)/GAS OIL(0.001% M.S.)/DTB-MUTHU/2020-2021	Emirates National Oil Company (Singapore)	06	06
	3	BK/TERM/GAS OIL(0.05% M.S.)/DTB-MUTHU/2020-2021	Emirates National Oil Company (Singapore)	04	04
	4	BK/TERM/GASOLINE(92 UNL)/DTB-MUTHU/2020-2021	E3 Energy UAE	06	06
	5	BK/TERM/GAS OIL(0.05% M.S.)/MUTHU/2020-2021	Swiss Singapore	06	06
	6	BK/TERM/GASOLINE(92-95 UNL)/DTB-MUTHU/2020-2021	BB Energy Asia Pte Ltd	07	07
2022		Forecasted total import quantities are to be imported through Term contracts. Term contracts are to be scheduled after a standard forecast.			
2023		Forecasted total import quantities are to be imported through Term contracts. Term contracts are to be scheduled after a standard forecast.			

Source: Based on the Commercial Function Data

4 Total Quantity to be imported under the Term and Single tender Contracts 2021-2023

Table 6. Total Quantity to be imported under the Term and Single tender Contracts

Year	Gasoline 92 Octane (MT)	Gasoline 95 Octane (MT)	(Super) Gas Oil 10 ppm (MT)	(Auto) Gas oil 500 ppm (With CEB)* (MT)	Jet/Kero (MT)	Fuel Oil (MT)	Bitumen (MT)
2021	1,056,259	177,770	81,236	1,556,508	274,114	399,977	2,700
2022	1,056,518	178,034	108,427	1,071,204	112,480	407,155	2,700
2023	1,139,806	190,702	122,840	1,015,195	60,506	407,155	2,700

With CEB Forecasted Demand & Local Consumers' Annual Requirement

Source: Based on the Forecasted Data

5 Refined Products Yield

Determination of the Crude Oil requirements for the Refinery and the corresponding yields for the 3 years (2021-2023) were forecasted using the data provided by the Economics & Scheduling Department of the Refinery. Further, the production capacity of CPC Refinery is not adequate to cater the country's demand as Refinery expansion project has not yet been happened and further increase of production cannot be expected due to the present condition of the Refinery.

Table 7. Refined Products Yield 2021-2023

	Gasoline 92 Octane (MT)	Gasoline 95 Octane (MT)	Gas Oil10 ppm (MT)	Gas oil 500 ppm (MT)	Jet A-1 (MT)	Lanka Kero (MT)	Bitumen (MT)	Fuel Oil* (MT)
2021	168,889	-	-	568,544	240,408	60,102	25,088	436,590
2022	182,308	-	-	591,226	259,488	64,872	38,420	471,240
2023	182,308	-	-	591,226	259,488	64,872	38,420	471,240

Source: Forecasted Total Yield of Refined Products from the Refinery

6 Crude oil and Refined Products Purchase Plan 2021-2023

At the CPC Refinery, Crude Oil is processed and refined into petroleum products mainly Gasoline (92 UNL), Kerosene/ JET A-1, Diesel and Naptha. As Refinery output is not sufficient to cater the country demand. Therefore, CPC has to import Refined Petroleum Products to cover the total demand of Sri Lanka. The following table illustrates the Crude oil purchase plan for the period of 2021-2023 with the current status of procurement preparedness activities. Gasoline (95 UNL) and Gasoline 10 PPM are not presently produced at Sapugaskanda Refinery due to the absence of required infrastructure and facilities.

Table 8. Crude oil purchase plan 2021-2023

Year	Crude Type	Required Quantity (MT)	Already Confirmed Quantity (MT)	Balance Quantity to be Purchased (MT)
2021	Murban Crude and other Crude	1,669,500	1,079,691	589,809
	Estimated No. of Shipments	18	12	06
2022	Murban Crude and other Crude	1,802,000	Not Confirmed	Not Confirmed
	Estimated No. of Shipments	20	Not Confirmed	Not Confirmed
2023	Murban Crude and other Crude	1,802,000	Not Confirmed	Not Confirmed
	Estimated No. of Shipments	20	Not Confirmed	Not Confirmed

Throughput per day: 5,500 MT

Most feasible parcel size is 90,000 MT

Source: Based on the data given from the Refinery

7 Appendixes

7.1 Appendix I

Cost Estimation of Crude Oil and Petroleum Products – 2021

Table 9. Cost Estimation of Crude Oil and Petroleum Products – 2021

	Gasoline 92 RON (MT)	Gasoline 95 RON (MT)	Gas Oil 10 ppm (MT)	Gas oil 500 ppm (with CEB) (MT)	Jet / Kero (MT)	Fuel Oil (MT)	Crude Oil (MT)	Av Gas (MT)	Bitumen (MT)
Forecasted Demand	1,255,148	177,770	81,236	2,125,052	574,624	836,569	1,669,500	264	27,788
Stocks as at 31st December 2020	50,000	6,000	7,000	150,000	43,000				
Forecasted Ref. Production	168,889	-	-	568,544	300,510	436,590	-	-	25,088
Forecasted Qty. To be Imported in MT	1,056,259	177,770	81,236	1,556,508	274,114	399,979	1,669,500	264	2,700
Forecasted Qty. to be Imported in BBL	8,981,252	1,469,804	604,265	11,577,912	2,189,318	2,651,860	12,688,200	2,265	16,992
Estimated DAP Value per BBL(US\$)	63.62	67.57	69.62	66.25	132.07		56.81		
Value of Imports (US\$/Mn)	571.38	99.32	42.07	767.05	144.85		721.35		
Total Estimated Value of Refined Products Imports (US\$/Mn) (with CEB requirement)									1,778
Total Estimated Value of Refined Products+ Crude Oil Imports + Av Gas + Bitumen (US\$/Mn)* (with CEB requirement)									2,499

Source: Based on the calculated data

7.2 Appendix II

Cost Estimation of Crude Oil and Petroleum Products – 2022

Table 10. Cost Estimation of Crude Oil and Petroleum Products – 2022

	Gasoline 92 RON (MT)	Gasoline 95 RON (MT)	Gas Oil 10 ppm (MT)	Gas oil 500 ppm (with CEB) (MT)	Jet / Kero (MT)	Fuel Oil (MT)	Crude Oil (MT)	Av Gas (MT)	Bitumen (MT)
Forecasted Demand	1,238,826	178,034	108,427	1,662,430	436,840	878,395	1,802,000	264	27,788
Stocks as at 31st December 2020	50,000	6,000	7,000	150,000	43,000				
Forecasted Ref. Production	182,308	-	-	591,226	324,360	471,240	-	-	25,088
Forecasted Qty. To be Imported in MT	1,056,518	178,034	108,427	1,071,204	112,480	407,155	1,802,000	264	2,700
Forecasted Qty. to be Imported in BBL	8,980,403	1,513,289	813,202	8,034,030	899,840		13,695,200		
Estimated DAP Value per BBL(US\$)	65.76	67.03	67.57	66.94	68.08	318.71	60.72		
Value of Imports (US\$/Mn)	590.55	101.43	54.94	705	122		832		
Total Estimated Value of Refined Products Imports (US\$/Mn) (with CEB requirement)									1,574
Total Estimated Value of Refined Products+ Crude Oil Imports + Av Gas + Bitumen (US\$/Mn)* (with CEB requirement)									2,406

Source: Based on the calculated data

7.3 Appendix III

Cost Estimation of Crude Oil and Petroleum Products – 2023

Table 11. Cost Estimation of Crude Oil and Petroleum Products – 2023

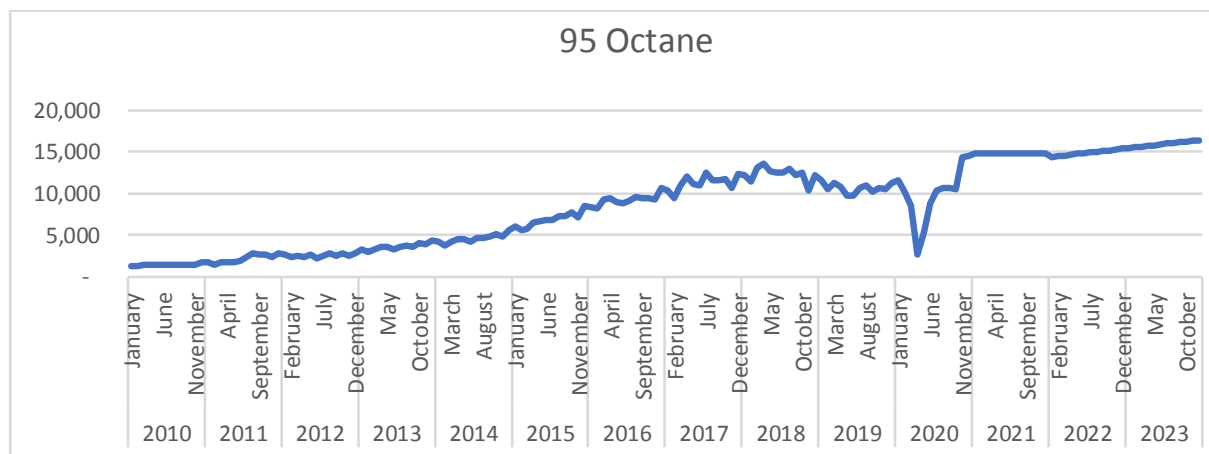
	Gasoline 92 RON (MT)	Gasoline 95 RON (MT)	Gas Oil 10 ppm (MT)	Gas oil 500 ppm (with CEB) (MT)	Jet / Kero (MT)	Fuel Oil (MT)	Crude Oil (MT)	Av Gas (MT)	Bitumen (MT)
Forecasted Demand	1,322,114	190,702	122,840	1,606,421	384,866	878,395	1,802,000	264	27,788
Stocks as at 31st December 2020	50,000	6,000	7,000	150,000	43,000				
Forecasted Ref. Production	182,308	-	-	591,226	324,360	471,240	-	-	25,088
Forecasted Qty. To be Imported in MT	1,139,806	190,702	122,840	1,015,195	60,506	407,155	1,802,000	264	2,700
Forecasted Qty. to be Imported in BBL	9,688,351	1,620,967	921,300	7,613,962	484,048		13,695,200		
Estimated DAP Value per BBL(US\$)	65.08	65.71	67.63	66.75	62.29	318.64	60.89		
Value of Imports (US\$/Mn)	630.51	106.51	62.30	669	124		834		
Total Estimated Value of Refined Products Imports (US\$/Mn) (with CEB requirement)									1,592
Total Estimated Value of Refined Products+ Crude Oil Imports + Av Gas + Bitumen (US\$/Mn)* (with CEB requirement)									2,426

Source: Based on the calculated data

7.4 Appendix IV

Table 12. GASOLINE (95 UNL) - (In MT's)

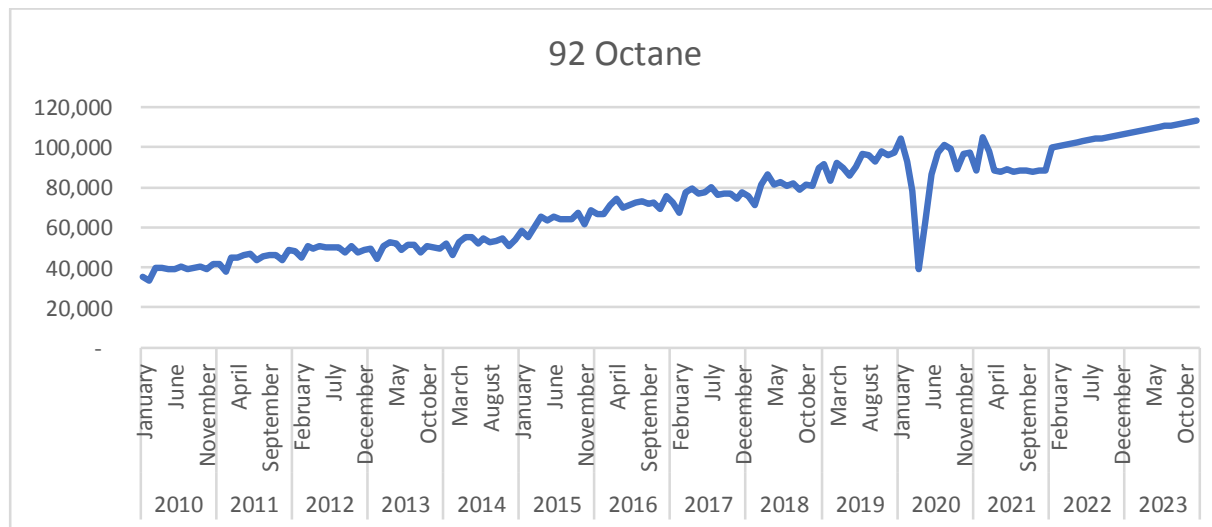
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
January	1,271	1,622	2,642	3,175	4,104	5,932	8,363	10,287	12,122	11,590	11,483	14,814	14,347	15,411
February	1,160	1,429	2,371	2,858	3,704	5,560	8,082	9,463	11,451	10,463	10,156	14,814	14,436	15,499
March	1,404	1,765	2,464	3,282	4,126	5,641	9,182	10,890	13,056	11,288	8,473	14,814	14,525	15,587
April	1,432	1,638	2,356	3,483	4,423	6,525	9,443	11,939	13,598	10,823	2,652	14,814	14,615	15,674
May	1,331	1,753	2,629	3,507	4,475	6,560	8,936	11,146	12,548	9,644	5,180	14,814	14,704	15,762
June	1,351	1,871	2,084	3,242	4,214	6,700	8,770	10,915	12,495	9,624	8,701	14,814	14,793	15,849
July	1,334	2,300	2,501	3,609	4,581	6,796	9,154	12,472	12,443	10,569	10,281	14,814	14,881	15,936
August	1,311	2,719	2,695	3,714	4,626	7,183	9,599	11,542	12,869	10,856	10,644	14,814	14,970	16,023
September	1,369	2,660	2,474	3,616	4,797	7,238	9,347	11,578	12,112	9,864	10,653	14,814	15,058	16,110
October	1,439	2,617	2,803	4,001	5,093	7,640	9,448	11,633	12,400	13,145	10,526	14,814	15,147	16,197
November	1,457	2,323	2,411	3,923	4,797	7,062	9,242	10,575	10,298	13,269	14,260	14,814	15,235	16,284
December	1,628	2,725	2,840	4,282	5,586	8,423	10,679	12,343	12,095	13,393	14,433	14,814	15,323	16,370



7.5 Appendix V

Table 13. GASOLINE (92 UNL) - (In MT's)

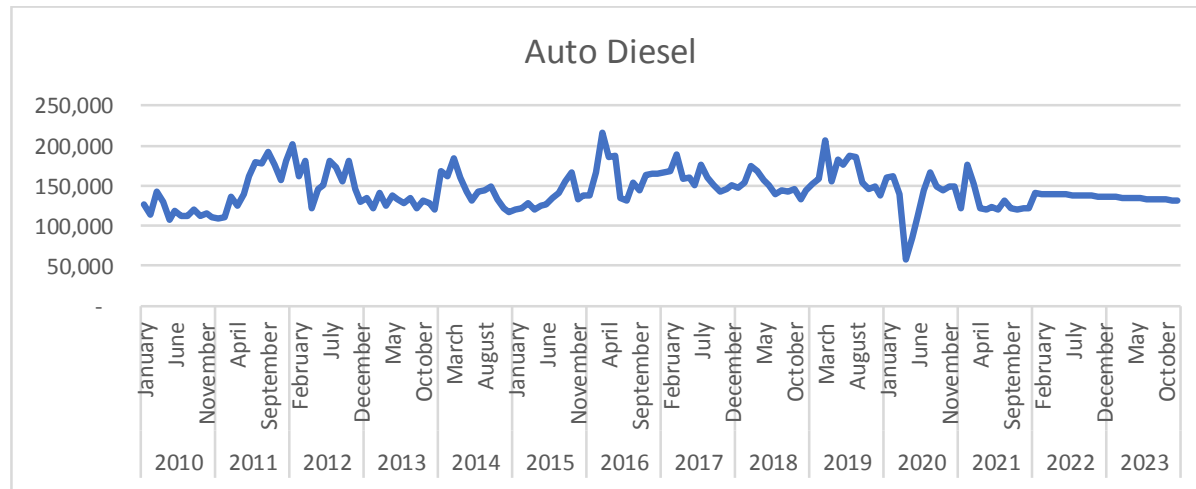
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
January	35,434	41,811	48,304	49,125	51,713	58,017	66,534	72,088	75,765	91,879	104,197	88,413	100,152	106,939
February	33,347	38,101	45,080	44,505	46,505	54,960	66,947	67,548	70,923	83,037	93,162	105,278	100,705	107,519
March	39,984	44,631	50,372	50,372	52,720	60,329	71,061	77,302	81,319	92,038	78,338	97,970	101,261	108,102
April	39,810	45,140	49,691	52,898	55,090	65,095	74,501	79,279	86,237	89,775	38,978	88,413	101,818	108,687
May	38,885	46,202	50,465	51,743	55,035	63,416	69,660	77,183	81,525	85,630	62,450	87,852	102,378	109,275
June	39,418	46,755	49,939	48,444	52,120	65,682	71,168	77,507	82,552	90,509	86,691	88,975	102,940	109,865
July	40,733	43,670	49,922	51,198	54,302	64,017	72,271	80,305	80,542	96,772	97,033	87,852	103,504	110,458
August	38,994	45,280	49,879	51,607	52,888	63,946	73,010	76,372	82,188	96,363	101,346	88,413	104,071	111,053
September	39,698	46,288	47,243	47,291	53,394	63,888	71,501	77,159	78,779	89,690	99,257	88,413	104,640	111,651
October	40,424	46,318	50,842	50,608	54,435	67,326	72,485	76,752	81,096	93,074	89,232	87,852	105,211	112,251
November	39,376	43,739	47,189	50,183	50,527	61,294	69,293	74,445	80,477	93,793	96,797	88,413	105,785	112,854
December	41,635	48,702	48,642	49,601	53,963	68,305	75,687	77,737	89,520	94,517	97,428	88,413	106,360	113,459



7.6 Appendix VI

Table 14. GAS OIL (0.05%) - (In MT's)

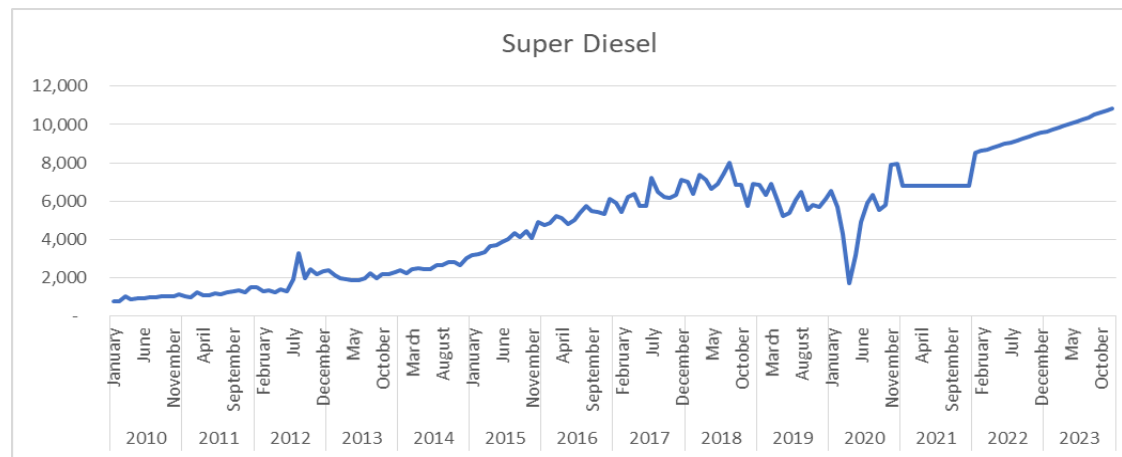
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
January	127,365	108,410	201,203	134,561	168,792	120,300	137,095	166,067	147,109	152,342	160,140	122,221	140,457	136,131
February	113,368	111,258	161,494	121,270	162,209	121,219	167,131	167,614	154,256	159,277	161,057	176,353	140,125	135,737
March	142,628	136,830	180,699	141,658	183,680	127,576	216,689	188,636	174,133	206,367	139,438	152,652	139,788	135,337
April	129,568	124,497	122,187	125,231	159,818	119,652	185,507	159,323	168,138	155,770	57,949	122,220	139,445	134,933
May	108,050	138,817	146,603	138,465	142,817	124,544	187,044	160,503	156,534	181,951	84,413	120,460	139,098	134,523
June	119,004	161,810	149,980	133,559	131,474	126,066	133,845	150,843	149,830	175,783	111,457	123,982	138,745	134,108
July	112,410	179,520	180,602	128,012	142,987	134,696	131,954	175,588	139,188	187,152	144,037	120,461	138,387	133,689
August	111,513	177,260	173,644	134,886	144,796	140,947	153,918	160,909	144,363	185,718	166,183	131,039	138,024	133,264
Septemb	119,816	191,943	155,995	121,276	148,894	156,097	144,142	150,814	142,759	154,299	148,837	122,220	137,656	132,833
October	112,210	175,624	181,331	132,181	133,355	166,873	164,039	142,112	145,780	163,741	144,189	120,460	137,282	132,398
Novembe	115,426	157,175	146,007	128,370	121,980	133,704	165,291	145,273	132,268	164,022	148,919	122,220	136,903	131,957
Decembe	110,277	180,367	130,374	119,507	116,527	137,146	164,302	150,433	144,582	164,303	148,747	122,220	136,520	131,512



7.7 Appendix VII

Table 15. GAS OIL (0.001%) - (In MT's)

	2,010	2,011	2,012	2,013	2,014	2,015	2,016	2,017	2,018	2,019	2,020	2,021	2,022	2,023
January	745	1,028	1,509	2,358	2,371	3,160	4,749	5,881	7,008	6,835	6,520	6,770	8,534	9,657
February	749	986	1,281	2,099	2,239	3,205	4,861	5,416	6,400	6,315	5,705	6,770	8,622	9,758
March	1,037	1,220	1,351	1,985	2,448	3,350	5,227	6,192	7,365	6,891	4,291	6,770	8,711	9,860
April	851	1,050	1,203	1,885	2,502	3,658	5,112	6,360	7,130	6,026	1,696	6,770	8,800	9,964
May	929	1,041	1,360	1,863	2,427	3,708	4,813	5,740	6,639	5,243	3,188	6,770	8,891	10,069
June	923	1,148	1,259	1,848	2,412	3,862	4,990	5,746	6,879	5,372	4,929	6,770	8,983	10,175
July	970	1,106	1,901	1,977	2,619	4,004	5,388	7,198	7,348	6,045	5,927	6,770	9,076	10,282
August	959	1,204	3,278	2,240	2,663	4,303	5,735	6,488	7,992	6,477	6,325	6,770	9,170	10,391
September	995	1,279	1,985	1,965	2,795	4,115	5,461	6,192	6,840	5,567	5,544	6,770	9,265	10,502
October	1,004	1,305	2,445	2,172	2,803	4,417	5,405	6,153	6,846	7,425	5,816	6,770	9,361	10,614
November	1,024	1,221	2,146	2,194	2,663	4,059	5,310	6,321	5,740	7,495	7,872	6,770	9,458	10,727
December	1,126	1,488	2,331	2,298	3,029	4,883	6,125	7,116	6,898	7,564	7,961	6,770	9,557	10,841



7.8 Appendix VIII

Table 16. JET A-1/KEROSINE - (In MT's)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
January		39,670	41,827	38,193	44,351	43,443	45,278	49,422	83,679	61,055	66,042	19,648	38,185	34,172
February		36,467	36,695	36,249	39,730	40,455	44,192	44,990	78,949	54,927	54,917	45,415	37,877	33,806
March		41,108	39,053	40,871	41,728	44,549	49,955	48,880	83,948	64,570	41,463	38,231	37,565	33,436
April	33,951	39,137	36,368	38,155	40,353	41,335	45,861	46,468	79,246	57,563	12,987	19,332	37,247	33,060
May	33,542	37,402	35,211	36,298	40,135	40,739	43,254	45,549	69,231	50,553	17,233	13,069	36,925	32,680
June	33,386	37,981	34,347	32,726	38,605	40,970	44,139	44,287	64,978	49,881	24,047	14,802	36,597	32,295
July	34,592	39,465	37,436	44,333	42,899	43,664	48,538	49,502	70,021	54,453	25,904	16,538	36,265	31,905
August	33,934	39,013	38,865	41,786	42,765	41,004	48,268	54,707	70,726	55,836	25,721	16,357	35,929	31,511
September	33,146	37,980	47,059	39,783	40,165	37,672	44,806	50,093	68,421	52,857	22,647	14,937	35,587	31,111
October	34,353	38,346	38,431	41,037	42,139	42,387	46,944	53,382	57,942	55,430	23,226	22,867	35,240	30,707
November	35,017	34,904	36,124	39,118	40,486	38,363	42,826	56,941	59,025	58,796	50,374	24,973	34,889	30,298
December	38,673	39,487	38,193	40,870	42,940	46,287	49,302	81,826	62,104	61,735	50,346	27,945	34,533	29,884

