

**CRUDE PIPELINE NETWORK IN INDIA 2020-21**

S. No.	Type of Pipeline/ Owner	Name of Pipeline	Dia	Capacity (MMTPA)		Length (Km)		Thru'put (TMT)	
			Inch	31.03.2020	31.03.2021	31.03.2020	31.03.2021	31.03.2020	31.03.2021
<b>CRUDE PIPELINES (Onshore)</b>									
<b>1</b>	<b>IOCL:</b>								
	SMPL	Salaya Mathura Pipeline	42/28/24	25.000	25.000	2646	2646	25492	23135
	MPPL	Mundra Panipat Pipeline	28/22	8.400	8.400	1194	1194	6826	6093
	PHBPL	Paradip Haldia Barauni Pipeline	48/36/30/18	15.200	15.200	1355	1355	15113	14902
		<b>Sub-total</b>		<b>48.600</b>	<b>48.600</b>	<b>5195</b>	<b>5195</b>	<b>47431</b>	<b>44130</b>
<b>2</b>	<b>ONGC:</b>								
		14" CTF (Central Tank Farm) Kalol to CTF Nawagam-New (New line commissioned in Aug'2010)		3.14	3.14	62.50	62.50	986.0	1200
		18" Nawagam-Koyali pipeline (old)#		5.40	5.40	78.40		1790.0	
		18" Nawagam-Koyali pipeline (new)##		5.40	5.40	79.60	79.60	2898.0	3600
		14" Nawagam-Koyali pipeline* (old)		3.30	3.30	78.40	78.40	563.0	0
		14" MHN-NGM (Mehsana Nawagam) Trunk line- New (New crude oil trunk line commissioned. Under operation since Dec' 2010)		2.265	2.265	77.000	77.000	2025.0	2100
		16" CTF(Central Tank Farm), Ankleshwar to Koyali Oil pipeline (AKCL-Ankleshwar Koyali Crude Line)**		2.199	2.199	94.8	94.8	908.0	900
		8" CTF(Central Tank Farm), Ankleshwar to CPF(Central Processing Facility), Gandhar		0.394	0.394	44.30	44.30	0	0
		12" CPF (Central Processing Facility), Gandhar to Saraswani 'T' point		1.805	1.805	56.70	56.70	761.0	700
		10" Akholjuni-Koyali oil pipeline (Commisioned in July 2010), Akholjuni to Laxmipura 'T' point		0.481	0.481	65.50	65.50	180.0	200
		12" Lakwa-Moran oil line (New)		1.50	1.50	14.60	14.60	353.0	300
		12" Lakwa-Moran oil line (Old)		1.50	1.50	17.50	17.50	24.0	0

	14" Geleki-Jorhat pipeline (Old)		1.50	1.50	48.50	48.50	334.0	0
	14" Geleki-Jorhat pipeline (New)		1.50	1.50	48.00	48.00	62.0	200
	12" Borholla-Jorhat pipeline (old)		0.60	0.60	42.80	42.80	145.0	0
	12" Borholla-Jorhat pipeline (New)		0.60	0.60	43.40	43.40	51.0	200
	8" NRM (Narimanam) to CPCL(Chennai Petroleum Corporation Limited)		0.74	0.74	4.90	4.90	387.0	400
	4" KSP-WGGS to TPK Refinery (Kesnapalli-West Group Gathering Station to Tatipaka Refinery)		0.083	0.083	14.00	14.00	3	0
	4" GMAA EPT (Gopavaram Early Production Terminal) to S. Yanam Unloading Terminal (3.5 km long and 4"). New Line Commissioned on 28.7.2010		0.09	0.09	4.00	4.00	16	0
	<b>Sub-total</b>		<b>32.50</b>	<b>27.13</b>	<b>874.9</b>	<b>796.5</b>	<b>11486.00</b>	<b>9800.00</b>
<b>3</b>	<b>OIL:</b>							
	NBPL	DN 406.4mm (16")	6	6	401.30	401.30	3437.44	3270.69
	NBPL	DN 355.6mm (14")	2.3	2.3	756.00	756.00	1691.32	2156.37
	Naharkatiya - Digboi Pipeline	DN 200mm (8")	0.65	0.65	35.30	35.30	603.39	589.32
	<b>Sub-total</b>		<b>8.95</b>	<b>8.95</b>	<b>1192.60</b>	<b>1192.60</b>	<b>5732.15</b>	<b>6016.38</b>
<b>4</b>	<b>JV:</b>							
	HMPL (JV with HPCL) (Mundra - Bhatinda Pipeline)		11.30	11.30	1017.00	1017.00	12200.00	12600.00
	BORL (JV with BPCL) (Vadinar - Bina Crude Oil Pipeline)	24"	6.00	7.80	937.00	937.00	7871.00	6219.00
	<b>Sub-total</b>		<b>17.30</b>	<b>19.10</b>	<b>1954.00</b>	<b>1954.00</b>	<b>20071.00</b>	<b>18819.00</b>
<b>5</b>	<b>Cairn:</b>							
	Mangat Bhogat pipeline		8.71	8.71	660.00	660.00	6700.00	6000.00
	<b>Sub-total</b>		<b>8.71</b>	<b>8.71</b>	<b>660.00</b>	<b>660.00</b>	<b>6700.00</b>	<b>6000.00</b>
<b>Total (A) - Crude Pipelines (Onshore)</b>			<b>116.06</b>	<b>112.49</b>	<b>9876.47</b>	<b>9798.07</b>	<b>91420.15</b>	<b>84765.38</b>
<b>CRUDE PIPELINES (Offshore)</b>								
<b>1</b>	<b>IOCL:</b>							
	SMPL	Salaya Mathura Pipeline	42	-	-	14	14	-
	PHBPL	Paradip Haldia Barauni Pipeline	48	-	-	92	92	-
	<b>Sub-total</b>					<b>106.00</b>	<b>106.00</b>	
<b>2</b>	<b>Cairn:</b>							
	Bhogat Marine pipeline		2.00	2.00	28.00	28.00	1600.00	1600.00
	<b>Sub-total</b>		<b>2.00</b>	<b>2.00</b>	<b>28.00</b>	<b>28.00</b>	<b>1600.00</b>	<b>1600.00</b>
<b>3</b>	<b>ONGC:</b>							
	30" MUT (Mumbai Uran Trunk) oil line		15.634	15.634	204.00	204.00	8817.00	8500.00

	24" HUT (Heera Uran Trunk) oil line		11.5 Derated MAOP to 35 kg/cm2 as per FFP certification report 2014-15	11.5 MAOP derated to 35 kg/cm2 as per FFP certification report 2014-15	81	81	2890	3000
	30" BUT (Bombay High Uran subsea Trunk) oil line		18 Derated MAOP to 15 kg/cm2 as per FFP certification report 2013-14	6.4 MAOP derated to 15 kg/cm2 as per FFP certification report 2013-14	203	203	61	0
		<b>Sub-total</b>	<b>45.134</b>	<b>33.534</b>	<b>488.00</b>	<b>488.00</b>	<b>11768.0</b>	<b>11500.0</b>
<b>Total (B) - Crude Pipelines (Offshore)</b>			<b>47.134</b>	<b>35.534</b>	<b>622.000</b>	<b>622.000</b>	<b>13368.000</b>	<b>13100.000</b>
<b>Total Crude (C) = Crude (A) Onshore + Crude (B) Offshore</b>			<b>163.191</b>	<b>148.024</b>	<b>10498.47</b>	<b>10420.07</b>	<b>104788.2</b>	<b>97865.4</b>

**LPG PIPELINE NETWORK IN INDIA 2020-21**

S. No.	Type of Pipeline/ Owner	Name of Pipeline	Capacity (MMTPA)		Length (Km)		Thru'put (TMT)		
			31.03.2020	31.03.2021	31.03.2020	31.03.2021	31.03.2020	31.03.2021	
<b>LPG PIPELINES</b>									
1	<b>IOCL:</b>								
	PJPL	Panipat Jalandhar Pipeline	10/12	0.700	0.700	280	280	599	588
	PHDPL	Paradip Haldia Durgapur Pipeline	10/14	1.270	1.270	679	873	987	1131
		<b>Sub-Total</b>		<b>1.970</b>	<b>1.970</b>	<b>959.00</b>	<b>1153.00</b>	<b>1586.00</b>	<b>1719.00</b>
2	<b>BPCL:</b>								
		Mumbai-Uran LPG Pipeline (BPCL-HPCL-JV)		0.80	0.80	28.00	28.00	364.00	681.00
		Kochi Udayamperoor LPG Pipeline (Kochi Salem Pipeline Pvt. Ltd.: BPCL-IOCL JV, Onshore Pipeline)		0.18	0.18	11.69	11.69	90.59	90.59
		<b>Sub-Total</b>		<b>0.98</b>	<b>0.98</b>	<b>39.69</b>	<b>39.69</b>	<b>454.59</b>	<b>772</b>
3	<b>HPCL:</b>								
		Uran-Chakan-Shikrapur LPG Pipeline (UCSPL) (Joint Investment HPCL+BPCL)	12"	1.00	1.00	169	169	111	884
		Mangalore - Hassan - Mysore - Solur LPG Pipeline	14"/12"/10"	1.94	1.94	356	356	984	1077
		Hassan Cheralapally Pipeline (HCPL) (under construction)	14"	-	2.20	-	649	-	-
	<b>Sub-Total</b>		<b>2.94</b>	<b>5.14</b>	<b>525</b>	<b>1174</b>	<b>1095</b>	<b>1961</b>	
4	<b>GAIL:</b>								
		Jamnagar-Loni LPG Pipeline (JLPL)	16"/14"/12"/10"/8"/6"/4"	2.50	2.50	1410	1410	2710	2850
		Vizag-Secundrabad LPG Pipeline (VSPL)	12"/10"/8"/6"/4"	1.33	1.33	618	618	1200	1310
		<b>Sub-Total</b>		<b>3.83</b>	<b>3.83</b>	<b>2028</b>	<b>2028</b>	<b>3910.00</b>	<b>4160.00</b>
	<b>Total LPG Pipelines</b>		<b>9.72</b>	<b>11.92</b>	<b>3551.69</b>	<b>4394.69</b>	<b>7045.59</b>	<b>8611.59</b>	

**PRODUCT PIPELINE NETWORK IN INDIA 2020-2021**

S. No.	Type of Pipeline/ Owner	Name of Pipeline	Dia	Capacity (MMTPA)		Length (Km)		Thru'put (TMT)	
			Inch	31.03.2020	31.03.2021	31.03.2020	31.03.2021	31.03.2020	31.03.2021
<b>PRODUCT PIPELINES (Onshore)</b>									
1	<b>IOCL:</b>								
	KAPL	Koyali Ahmedabad Pipeline	8	1.100	1.100	79	79	435	452
	KSPL	Koyali Sanganer Pipeline (Including Jaipur Panipat Naphtha Pipeline)	18/12/10/ 22/16/12	4.860	5.000	1644	1644	4709	4039
	KRPL	Koyali Ratlam Pipeline	16	2.000	2.000	265	265	1498	779
	KDPL	Koyali Dahej Pipeline	14/12	2.600	2.600	197	197	722	634
	BKPL	Barauni Kanpur Pipeline	20/12	3.500	3.500	1227	1227	2666	2958
	HMRPL	Haldia Mourigram Rajbandh Pipeline	12	1.350	1.350	277	277	2118	1532
	HBPL	Haldia Barauni Pipeline	12	1.250	1.250	526	526	1659	1474
	GSPL	Guwahati Siliguri Pipeline	8	1.400	1.400	435	435	1737	1678
	PBPL	Panipat Bhatinda Pipeline	14	1.500	1.500	219	219	1470	1296
	PRPL	Panipat Rewari Pipeline	12	2.100	2.100	155	155	1399	1466
	PAJPL	Panipat Ambala Jalandhar Pipeline	14/12/10	3.500	3.500	495	495	3403	2595
	PDPL	Panipat Delhi Pipeline	14/10	3.000	3.000	189	189	1263	763
		Panipat Bijwasan ATF Pipeline*	10			111	111		
	MDPL	Mathura Delhi Pipeline	16	3.700	3.700	147	147	2706	1756
	MTPL	Mathura Tundla Pipeline	16	1.200	1.200	56	56	396	431
	MBPL	Mathura Bharatpur Pipeline	8			21	21	146	159
	CTMPL	Chennai Trichy Madurai Pipeline	14/12/10	2.300	2.300	683	683	2944	2461
	CBPL	Chennai Bangalore Pipeline	14/12	2.450	2.450	290	290	2126	1759
	CMPL	Chennai Meenambakkam ATF Pipeline	8	0.180	0.180	95	95	322	118
	DTPL	Digboi Tinsukia Pipeline	8/6	NA	NA	NA	NA	NA	NA
	DDPL	Devangonhi Devanhalli Pipeline	8	0.660	0.660	36	36	606	302
	PRRPL	Paradip Raipur Ranchi Pipeline	18/16/14/12/10	5.000	5.000	1073	1073	3821	3463
	ATF-KOL	Kolkata ATF Pipeline	8	0.200	0.200	27	27	186	55
		<b>Sub-Total</b>		<b>43.850</b>	<b>43.990</b>	<b>8247.00</b>	<b>8247.00</b>	<b>36332.00</b>	<b>30170.00</b>
2	<b>BPCL:</b>								
		Mumbai-Manmad-Bijwasan Multiproduct Pipeline (MMBPL)	18"/14"/16"/8"	6.00	6.00	1389	1389	6883	6777
		Bina-Kota Multiproduct Pipeline (BKPL)	18"	4.40	4.40	259	259	4211	3362
		Kota-Jobner Multiproduct Pipeline (Branch Line)	14"	*	*	211	211	*	*
		Mumbai Refinery ATF Pipeline to Mumbai Airport (Santacruz)	10"	1.44	1.44	15	15	739	284
		Kochi Refinery ATF Pipeline to Kochi Airport	8"	0.60	0.60	34	34	529	168
		Mumbai Refinery - Wadilube Pipeline	12"	1.30	1.30	12	12	268	296
		<b>Sub-Total</b>		<b>13.74</b>	<b>13.74</b>	<b>1920.00</b>	<b>1920.00</b>	<b>12630.00</b>	<b>10887.00</b>
3	<b>HPCL:</b>								
	White Oil/ HPCL Owned	Mumbai - Pune - Solapur Pipeline (MPSPL)	14"/12"	4.30	4.30	508	508	4119	3137
	White Oil/ HPCL Owned	Vizag - Vijaywada - Secunderabad Pipeline (VVSPL)	18"/16"/14"	7.70	7.70	572	572	5628	4557
	White Oil/ HPCL Owned - 1 MMT Common User	Mundra - Delhi Pipeline (MDPL)	18"/16"	6.90	6.90	1054	1054	6735	6787

	White Oil/ HPCL Owned	Ramanmandi - Bahadurgarh Pipeline (RBPL)	18"	7.11	7.11	243	243	5751	4933
	White Oil/ HPCL Owned	Ramanmandi - Bhatinda Pipeline (RBhPL)	10"	2.10	2.10	30	30	1078	1028
	White Oil/ HPCL Owned	Awa - Salawas Pipeline (ASPL) (Branchline)	10"	2.30	2.30	93	93	604	486
	White Oil/ HPCL Owned	Bahadurgarh - Tikrikalan Pipeline (BTPL) (Branchline)	10"/8"	0.75	0.75	14	14	386	265
	White Oil/ HPCL Owned	Rewari-Kanpur Pipeline (RKPL) (Branchline)	18"	7.98	7.98	443	443	3806	3656
	ATF Pipeline/HPCL owned	Mumbai Refinery to Mumbai Airport (ATF Pipeline)	10"	0.50	0.50	20	20	426	178
	White Oil Pipeline/HPCL owned	Black Oil Pipeline - Mumbai Refinery to Vashi Terminal (BOPL)	12"	1.50	1.50	22	22	629	335
	Lube Oil/ HPCL	Mumbai Refinery to Mazagaon Terminal (LOPL)	12"	1.00	1.00	17	17	498	427
	White Oil/ HPCL Owned Common Carrier	Palanpur Vadodara Pipeline (Branchline)	18"	4.50	4.50	235.00	235.00	132	906
		Vijaywada Dharmapuri Pipeline (under construction) Branchline	16"	-	4.24	-	680	-	-
		Barmer Palanpur Pipeline (under construction)	18"	-	6.00	-	206.00	-	-
		<b>Sub-Total (Mainline only)</b>		<b>31.11</b>	<b>41.35</b>	<b>3250</b>	<b>4136</b>	<b>21025</b>	<b>18217</b>
<b>4</b>	<b>OIL</b>								
	NSPL	Numaligarh - Siliguri Product Pipeline	406.4mm (16")	1.72	1.72	654.3	654.3	1335.37	1698.73
		<b>Sub-Total</b>		<b>1.72</b>	<b>1.72</b>	<b>654.30</b>	<b>654.30</b>	<b>1335.37</b>	<b>1698.73</b>
<b>5</b>	<b>JV</b>								
	PCCK	Cochin - Coimbatore - Karur Multiproduct Pipeline	18"/14"	3.30	3.30	293.00	293.00	4001.00	3291.00
	PMHBL ONGC/HPCL JV 26% each, Petronet-12%, Public-36%	Mangalore - Hassan -Bengaluru Pipeline	20"/24"/20"	2.14	5.60	364.00	364.00	3362.00	2925.00
		<b>Sub-Total</b>		<b>5.44</b>	<b>8.90</b>	<b>657.00</b>	<b>657.00</b>	<b>7363.00</b>	<b>6216.00</b>
		<b>Total Product (Onshore)</b>		<b>95.86</b>	<b>109.70</b>	<b>14728.45</b>	<b>15614.45</b>	<b>78685.79</b>	<b>67188.50</b>

**GAS PIPELINE NETWORK IN INDIA 2020-2021**

S. No.	Type of Pipeline/ Owner	Name of Pipeline	Capacity (MMSCMD)		Length (Km)		Thru'put (MMSCMD)	
			31.03.2020	31.03.2021	31.03.2020	31.03.2021	31.03.2020	31.03.2021
<b>GAS PIPELINES (Onshore)</b>								
1	<b>IOCL:</b>							
		Dadri Panipat R LNG Pipeline (30")	9.5	9.5	141	141	5.30	5.50
		ETBPNMTPL (Ennore-Tuticorin) (16"/18")	12.19	12.19	22	165	1.40	2.11
		<b>Sub-Total</b>	<b>21.69</b>	<b>21.69</b>	<b>163</b>	<b>306</b>	<b>6.70</b>	<b>7.61</b>
2	<b>ONGC:</b>							
		20" Agartala Dome GCS-OTPC, Palatana	3.2	3.2	52.8	52.8	2.39	2.00
		Sonamura-Palatana 16" Trunk Line	0.8	0.8	21.0	21.0	0.11	0.11
		Konaban-Nimbutali 16" Trunk line	1.5	1.5	12.0	12.0	0.86	0.86
		Sonamura-Monarchak 10" Trunk Line	0.5	0.5	10.5	10.5	0.40	0.40
	<b>Sub-Total</b>	<b>6.00</b>	<b>6.00</b>	<b>96.3</b>	<b>96.3</b>	<b>3.76</b>	<b>3.37</b>	
3	<b>GAIL:</b>							
	1.a	Hazira-Vijaipur-Jagdishpur Pipeline/Gas rehabilitation and expansion project pipeline/Dahej/Vijaipur Pipeline & spur/Vijaipur-Dadri Pipeline (HVJ-GREP-DVPL + spur lines) (Dia: 36")	107	107	6274	6320	69.03	68.68
	1.b	DVPL-GREP upgradation (DVPL-II & VDPL) (48")						
	1.c(i)	Chhainsa-Jhajjar-Hissar Pipeline (CJPL) including spur lines CJHPL (SNPL part)* (Dia: 36"/16")	5	5	315	304	1.09	0.94
	1.c(ii)	Dadri Bawana Nangal* (Dia: 36"/30"/24"/18")	31	31	868	868	7.35	6.07
	2	Dahej-Uran-Panvel Pipeline (DUPL/ DPPL) including spur lines (Dia: 30"/18")	19.90	19.90	935	935	16.23	15.41
	3	Kochi-Koottanad-Bengaluru-Manglore(Ph-1) (Dia: 16"/4")	6	12	48	504	3.02	3.28
	4	Dabhol-Bengaluru (Dia: 36"/4") (under construction)	16	16	1130	1414	0.92	1.60
	5.a	Gujarat: Baroda sub network (Dia:24"/16")						
	5.b	Gujarat: Motwan sub network (Dia:24"/16")						
	5.c	Gujarat: Kalol Ramol sub network (Dia:24"/16")						
	5.d	Gujarat: kadi Kalol sub network (Dia:24"/16")	8.31	8.31	631	663	1.41	2.40
	5.e	Gujarat: paliyad sub network (Dia:24"/16")						
	5.f	Gujarat: Mehsana sub network (Dia:24"/16")						
	5.g	Gujarat: Ex Hazira (GGCL) (Dia:24"/16")						
	6	Dedicated Pipeline N/W (Rajashthan+ Gujarat+KG Basin + Cauvery Basin)			233	233	3.61	3.06
	7	Cauvery Basin (Dia:18")	4.330	4.330	242	242	2.72	1.80
	8	Lakwa (Dia: 24")	NA	NA		NA	NA	0.32
	9	Tripura Agartala (Dia: 12")	2.08	2.08	60	60	0.94	0.97
	10 a.	Mumbai Uran-Thal-Usar (Dia: 26")	7.030	7.030	125	125	4.89	4.84
10 b.	Mumbai Trombay-RCF (Dia: 26")							
11	KG Basin (Dia: 18")	16.000	16.000	889	889	4.56	4.13	
12	Jagdishpur-Haldia-Bokaro-Dhamra-Paradip-Barauni-Guwahati	7.440	7.440	748	1098	0.01	0.09	
	<b>Sub-total</b>	<b>171</b>	<b>177</b>	<b>12498</b>	<b>11668</b>	<b>102.77</b>	<b>102.36</b>	
	<b>Total (A) Gas Pipelines Onshore</b>	<b>198.34</b>	<b>204.34</b>	<b>12757.30</b>	<b>12070.30</b>	<b>113.23</b>	<b>113.34</b>	
<b>GAS PIPELINES (Offshore)</b>								

1	ONGC						
	28" MUT gas line	12.247	12.247	204.00	204.00	8.79	8.571
	26" BUT gas line	12.5 MAOP derated to 60 kg/cm2 as per FFP certification 2012-13	12.5 MAOP derated to 60 kg/cm2 as per FFP certification 2012-13	203.00	203.00	0.114	0.335
	26" HUT gas line	16.00	16.00	81.00	81.00	2.038	2.020
	36" BPA- Hazira (Gas)	22.00	22.00	231.00	231.00	11.312	9.538
	42" BPB- Hazira (Gas)	37.00	37.00	244.00	244.00	17.343	20.704
	20" Uran Trombay Gas Line	6.00	6.00	24.00	24.00	3.790	2.860
	<b>Sub-Total</b>	<b>105.75</b>	<b>105.75</b>	<b>987.00</b>	<b>987.00</b>	<b>43.387</b>	<b>44.03</b>
	<b>Total (B) Gas Pipelines Offshore</b>	<b>105.75</b>	<b>105.75</b>	<b>987.00</b>	<b>987.00</b>	<b>43.39</b>	<b>44.03</b>
	<b>Total Gas (C) = Gas Pipeline (A) Onshore + Gas Pipeline (B) Offshore</b>	<b>304.09</b>	<b>310.09</b>	<b>13744.30</b>	<b>13057.30</b>	<b>156.62</b>	<b>157.37</b>