

इंडियन ऑयल कॉर्पोरेशन लिमिटेड

बेंगलुरु टर्मिनल, देवनगोंदि, बेंगलुरु-560067
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Indian Oil Corporation Limited

Bengaluru Terminal, Devanagonthi, Bengaluru-560 067

Tel : 080-27945719, 27945767, 27945776

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IndianOil

विपणन प्रभाग
Marketing Division

Schedule B

[see regulation 5(5)(b)(viii)]

Format for furnishing information regarding determining capacity of Petroleum and Petroleum Products Pipeline

1	Name of Entity	INDIAN OIL CORPORATION LIMITED
2	Address and Contact details of Entity	Dy.General Manager (Terminal), Indian Oil Corporation Ltd, Devanagonthi Terminal, Near Devanagonthi Railway Stn, Devanagonthi, Bengaluru- 560067
3	Name of Petroleum and Petroleum Products Pipeline	DEVANAHALLI-DEVANAGONTHI PIPELINE
4	Name of Software package used for determining capacity	Pipeline Studio
5	Approved Flow equation used (mention name of flow equation)	Colebrooke White Equation
6	Details of injection/entry point and delivery/exit points and sections on the pipeline	Entry Point : Devanagonthi Pumping Station Delivery Point: Devanahalli Terminal Sections : Devanagonthi-Devanahalli
7	Quality of various products being transported in the pipeline	Only ATF
8	Constant and variable parameters used under steady state conditions for determining capacity of the pipeline	Details Enclosed as Annexure-1
9	Entity agrees to have considered the Technical standards, specifications and safety standards as specified by the Board	Yes/ No
10	Entity agrees to have considered	Yes/ No

tel Ajay Singh

अजय सिंह / Ajay Singh

उप महाप्रबंधक (टर्मिनल) / Dy. General Manager(T)

इंडियन ऑयल कॉर्पोरेशन लिमिटेड / Indian Oil Corporation Limited

बेंगलुरु टर्मिनल / Bengaluru Terminal

पंजीकृत कार्यालय : जी-9, अली यार जंग मार्ग, बंदरा (पूर्व), मुंबई-400 051 (भारत)
Regd. Office : G-9, Ali Yavar Jung Marg, Bandra (East), MUMBAI - 400 051. (India)

	the relevant provisions of Petroleum and Natural Gas Regulatory Board Regulations	
11	Quality specifications considered for the purpose of capacity determination	Aviation Turbine Fuel with a specific gravity of 0.79 and kinematic viscosity of 1.75 cSt @ 20°C
12	Capacity of the pipeline under existing operating conditions	0.66 MMTPA
13	Maximum achievable Capacity of the pipeline under steady state conditions as determined under section 5 of these regulations	0.66 MMTPA considering 8000 Hrs of Operation in a Year and without injection of Flow Enhancers (Stage-I)
14	Section wise maximum achievable capacity of the pipeline as determined under section 5 of these regulations	Devanagonthi- Devanahalli : 0.66 MMTPA
	Expected addition of entry points and exit points scheduled in near future	

Note: Submit the system flow diagram & hydraulic gradient

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Ajay Singh

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बेंगलुरु टर्मिनल / Bengaluru Terminal
देवनागोन्धी, बेंगलुरु-67 / Devanagonthi, Bengaluru-67

Annexure-I

CONSTANT PARAMETERS		
S. No.	Parameter	Details
1	Outer Diameter	Devanagonthi-Devanahalli: 8.625"
2	Length	Devanagonthi-Devanahalli: 36.17 KM
3	Roughness	45 microns
4	Velocity	2 m/s (Max)
5	STP	1.01325 bar, 15°C
VARIABLE PARAMETERS		
1	Operating Temperature	30 °C (Summer/ Winter)
2	Inlet Temperature	20-45 °C
3	Outlet Temperature	20-45 °C
4	Inlet Pressure/ Outlet Pressure	MAOPs Devanagonthi-Devanahalli: 89.9 Kg/Cm2
5	Source Supply Flow	158 KI/Hr
6	Delivery Flow	158 KI/Hr (Considering 8000 Hrs Operation in a Year and with injection of Flow Enhancers)
7	Elevation Difference	Devanagonthi: 900 Mtr & Devanahalli : 912 Mtrs (Hydraulic Gradient : 12 Meters)

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