REF: PLL/DHJ/HSE/MoEF/2021/01

To,

The Director (Environment)
Forests & Environment Department,
Government of Gujarat,
Block No. 14, 8th Floor, Sachivalaya,
Gandhinagar – 382 010
(Fax No.: 079-23252156)

Subject:

Half-yearly Compliance Report with respect to conditions stipulated by Ministry of Environment & Forests, Govt. of India and Department of Forests, Govt. of Gujarat for Installation of Terminal facilities to handle additional 10 MMTPA of LNG (Phase IIIA & Phase IIIB) at PLL Dahej, Gujarat by Petronet LNG Limited, Gujarat as on 31st Dec 2020

Ref

(a) F. No. 11-63/2011-IA-III Dated 26th February, 2014

(b) ENV-10-2013-71-E Dated 13th January, 2014

(c) F. No. 11-63/2011-IA-III Dated 04th Dec, 2020

Dear Sir.

The half yearly compliance report as on 31st Dec 2020 with respect to conditions stipulated by Ministry of Environment & Forests, Govt. of India and Department of Forests, Govt. of Gujarat for Installation of Terminal facilities to handle additional 10 MMTPA of LNG (Phase IIIA & Phase IIIB) at Petronet LNG Limited, Gujarat is enclosed.

Thanking you, Yours faithfully,

For Petronet LNG Limited

Sushit Machhi Head - HSE

Encl.: As above

Copy to:Director,
Ministry of Env., Forest and Climate Change
Indira Paryavaran Bhawan,
Jorbagh Road,
New Delhi – 110 003

Unit Head - Bharuch Division Gujarat Pollution Control Board Paryavaran Bhavan, Sector-10 A GANDHINAGAR – 382 010 (Gujarat)

CC to: Director (Technical) Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change Regional Office, Western Region, E-5, Kendriya Paryavaran Bhavan, Link Road No. 3, Bhopal – 462 016

Date: 19th January, 2021

Regional Officer Gujarat Pollution Control Board C-1\119\3, GIDC, Phase – 2, Narmadanagar Bharuch – 392015 (Gujarat)

HALF YEARLY COMPLIANCE REPORT TO THE CONDITION MENTIONED IN MOE&F LETTER NO. F.No.11-63/2011-IA-III, DATED: 26th February, 2014

&

LETTER NO. F.No.11-63/2011-IA-III DATED 04TH December 2020

(For Phase III Expansion) AS ON 31.12.2020

Point-wise compliance statement for the subject environmental clearance is as below:

	CONDITIONS	STATUS
7.	Special Conditions:	
i)	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	Complied. "Consent for Establishment" was obtained from GPCB vide their letter no. GPCB/BRCH/B-CCA611(2)/ ID-15479/222771 Dated 21.08.2014.
ii)	All the recommendations and conditions stipulated by the Gujarat Coastal Zone Management Authority vide letter no. ENV-10-2013-71-E dated 13.01.2014, shall be strictly complied with.	Complied and detail of compliance attach as Annexure-I.
iii)	The facility shall be constructed in accordance with the NFPA 59 A- Standard for the Production, storage and handling of liquefied Natural gas, OISD-194- Standard for Storage and handling of LNG, EN 1473 - Installation and equipment for LNG - Design of onshore installations and M.B.Lal Committee report.	Complied. The facilities designed and constructed as per NFPA59A, OISD 194,EN1473 and M B lal committee recommendation are incorporated. Attached Annexure IV Engineering design basis document for your reference The construction and commissioning of the Phase-IIIA facilities at Dahej completed and is operational since October, 2016 and Phase-IIIB1 Regasification facility at Dahej completed and is operational since June, 2019.
iv)	Precautionary measures shall be put in place to prevent leakage of LNG due to any disasters including tidal/ tsunami wave, seismic and other natural calamities. Disaster Management Plan shall put in place to manage emergencies.	Complied. The terminal is designed considering all the specified factors for safe operations. Existing Disaster Management Plan is updated accordingly. ERDMP plan is approved from DMI, Bhopal and valid till 29.12.2022 Attached Annexure V for DMI

		ERDMP certificate for your reference.
v)	Oil Spill Contingency Management Plan shall be put in place.	Complied. Oil spill contingency plan, is available.
vi)	Online sensor for load monitoring shall be provided, as committed.	Complied. Online stack monitoring instrument are installed for gas turbine stacks.
vii)	Temperature sensors, gas detectors, spill detectors shall be installed to take care of any type of spillage or leakage of the gas from the plant and the trucks.	Complied. These sensors placed as per design and as per F & G Mapping study for instant detection of any leakage in Phase-IIIA & Phase-IIIB1 Regasification Project. Attached Annexure VI F&G Study report Index page for your reference.
viii)	Project proponent shall explore training the local population with the help of training institutes like ITI etc, to make them suitable for employment in the facility.	Complied Petronet is working continuously for skill development of local people. PLL has recruited fair number of local people. For ancillary and support functions as security services, fire fighting and green belt maintenance etc. PLL is giving preference to local people. Housekeeping contract has been awarded to local Lakhigam village contractor.
ix)	All the recommendation of the EMP, Risk Assessment and Disaster Management Plan shall be complied within letter and spirit. All the mitigation measures submitted in the EMP/DMP report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MOEF along with half yearly compliance report to MoEF-RO.	Complied ERDMP plan is updated and include Phase III expansion. All the recommendation of DMI, Bhopal are incorporated. ERDMP plan is approved from DMI, Bhopal and valid till 29.12.2022. Attached Annexure V for DMI ERDMP certificate for your reference.
x)	A separate Environment Monitoring Cell shall be set up especially for this plant and details shall be submitted to the Ministry prior to the commencement of operation.	Complied Environment Monitoring Cell is already set up in the existing plant and is being used for Environment Monitoring of expansion project and a brief report is being submitted to MoEF on half yearly basis. At Dahej site, Seven no HSE person are employed headed with Sr. Manager HSE

xi)	Construction activity shall be carried out strictly as per the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Complied Construction activities was done as per CRZ Notification 2011. The construction and commissioning of the Phase-IIIA facilities at Dahej completed and is operational since October, 2016 and Phase-IIIB1 Regasification facility at Dahej completed and is operational since June, 2019.
xii)	No construction work other than those permitted in Costal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Complied CRZ Notification followed during construction phase however The construction and commissioning of the Phase-IIIA facilities at Dahej completed and is operational since October, 2016 and Phase-IIIB1 Regasification facility at Dahej completed and is operational since June, 2019.
xiii)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied EMC is already setup in the company headed by Sr. Manager (HSE) and supported by six HSE members and it will be used for Environment Monitoring of expansion project.
xiv)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Complied Funds earmarked for environment management plan is included in budget and being monitored regularly.
8.	General conditions:	
i)	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Complied No digging activity effected the ground water quality during the construction. Ground water samples are taken and being monitors regularly.
ii)	Full support shall be extended to the officers of this Ministry/Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Complied Entry of GPCB and all government bodies are taken care for any inspection and all required information submitted as and when visited.

iii)	A Six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	Complied MoEF & CRZ Half yearly compliance report submitted regularly. Last Jan to June 2020 report submitted on 09.07.2020.
iv)	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Complied
v)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted. No Such case till date
vi)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Complied
vii)	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Complied Regional Office as well as the Ministry has been informed about the start of land development works vide our letter no. PLL/DHJ/MoEF/010 Dtd.12 th May, 2014.
viii)	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	Complied The environment clearance was forwarded to concerned offices. A copy of inwards from such offices was submitted vide our letter no. PLL/DHJ/MoEF/011 Dt.13 th May, 2014.
ix)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.	Complied Copy of environment clearance was already forwarded to concerned offices.
9.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Complied Mention Environment act and Rules are followed. PLI Policy renewed for one year w.e.f 02.06.20 Attached Annexure VIII for PLI policy
10.	All other statutory clearances such as the	Complied

Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities. 11. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal. 12. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project. 13. Any appeal against this clearance shall lie with the National Green Tribunal Act, 2010. 14. Satus of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent to concerned Panchayat, Zilla Parisad/ Municipal Corporation, Urban Local Body and the Refer reply to 8 (viii).	Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities. 11. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfornic.in. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal. 12. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No 460 of 2004 as may be applicable to this project. 13. Any appeal against this clearance shall lie with the National Green Tribunal, Act, 2010. 14. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website. 15. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/		approvals for storage of diesel from Chief	Applicable clearances from following
1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities. 11. PESO in principle approval obtained vide letter dated 10/10/2012 [PV(WC)S-784/GJ-II] and letter Dt 19/03/2014[PV(WC)S-784/GJ-II]. 12. Forest Dept. Approval obtained vide letter dated 30/10/2013, No.FCA-1013/10-13/11/SF-31-F. 13. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal. 12. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project. 13. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. 14. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities. 1. PESO in principle approval obtained vide letter dated 10/10/2012 [PV(WC)S-784/GJ-II] and letter Di 19/03/2014[PV(WC)S-784/GJ-II]. 2. Forest Dept. Approval obtained vide letter dated 30/10/2013, No.FCA-1013/10-13/11/SP-31-F. 10. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal. 12. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project. 13. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. 14. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent to concerned Panchayat, Zilla Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/		Controller of Explosives, Fire Department, Civil	authorities obtained, a copy of same was
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	Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/	15.		
	Local NGO, if any, from whom suggestions/		1	Refer reply to 8 (viii).
	·			
·	representations, it with, were received without the Environment and City Clearance is		representations, if any, were received while	The Environment and CRZ Clearance is

	processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	already uploaded at company website www.petronetlng.com.
16.	The proponent shall upload the status of	Complied.
	compliance of the stipulated Clearance conditions,	The Environment and CRZ Clearance
	including results of monitored data on their	compliance status is already uploaded at
	website and shall update the same periodically. It	company website www.petronetlng.com.
	shall simultaneously be sent to the Regional	The monitored reports are regularly sent
	Office of MoEF, the respective Zonal Office of	to MoEF RO, Bhopal with copy to
	CPCB and the SPCB	GPCB & CPCB.
17.	The environmental statement for each financial	Complied
	year ending 31st March in Form-V as is mandated	The Form-V is being updated on
	to be submitted by the project proponent to the	company website and sent to MoEF
	concerned State Pollution Control Board as	Regional Office by e-mail.
	prescribed under the Environment (Protection)	Attached Annexure VII for
	Rules, 1986, as amended subsequently, shall also	Environment statement
	be put on the website of the company along with	
	the status of compliance of Clearance conditions	
	and shall also be sent to the respective Regional	
	Offices of MoEF by e-mail.	
	Condition Mention in LETTER NO. F.No.11-63/20	11-IA-III dated 04 TH December 2020
6i	Marine ecological monitoring and its mitigation	Noted and will complied
	measures for protection of phytoplankton,	_
	zooplanktons, macrobenthos, estuaries, sea grass,	
	algae, sea, weeds, crustacean, fishes mangroves	
	and migratory birds etc. shall be undertaken	
	through a reputed university/institute with	
	financial support as desired. Six monthly report of	
	the studies to be provided to the regional office of	
	MoEFCC.	
7	The MoEFCC has considered the proposal based	Noted and all previous EC conditions
	on the recommendation of the Expert Appraisal	are Complied.
	Committee and hereby decided to accord	•
	extension of validty of EC of aforementioned	
	project issued by the Ministry vide letter No -11-	
	63/2011-IA-III dated 26 th February 2014 for	
	period of thre years i.e up to 25 th February 2024	
	under the EIA Notification 2006 as amended	
	subject to strict compliance of all conditions	
	specified in the EC letter and in addition to	
	additional condition prescribed by the EAC.	ž.
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ANNEXURE-I

Compliance to conditions as conveyed by Department of Forests & Environment, Govt. of Gujarat, Letter No. ENV-10-2013-71-E dated 13th January, 2014 as on 31.12.2020

Point-wise compliance statement for the subject environmental clearance is as below:

SR. NO.	CONDITIONS	<u>STATUS</u>
1	The provisions of the CRZ notification of 2011 shall be strictly adhered to by the PLL	Complied CRZ Notification 2011 followed strictly.
2	PLL shall have to comply with all the Standards/norms prescribed by the Central Pollution Control Board for this project	Complied CPCB and GPCB norms are followed Monthly Environment monitoring done through GPCB approved agency and all measured parameters are under the limit. Attached Annexure II for Environment monitoring data
3	PLL shall have to revise the Emergency Preparedness plan in close coordination with District Authority prior to Commissioning of expansion project.	ERDMP plan is updated and include Phase III expansion. All the recommendation of DMI, Bhopal are incorporated. ERDMP plan is approved from DMI, Bhopal and valid till 29.12.2022. Attached Annexure V for DMI ERDMP certificate for your reference.
4	All the recommendations and suggestions given by the VIMTA LABS in their Comprehensive Environment Management Plan shall be implemented strictly by the PLL	Complied. Company has adopted and followed best Environment Management practices to minimizing the impact on environment. Company has ISO 14001/9001/18001 certificate.

5	The construction debris and sewage generated during the construction phase shall not be discharged into the creek, sea, estuary or into the CRZ area. The debris shall be removed from the construction site immediately after the construction is over and shall be disposed off as per the guidance of the GPCB.	Complied No debris discharged into the creek, sea or into CRZ area during construction phase.
6	The construction camps shall be located outside the CRZ area and the construction labours shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours	Complied Construction camp set outside the CRZ area and all required welfare services are provided.
7	The groundwater shall not be tapped to meet with the water requirements during construction or operation phase in any case.	Complied Ground water was not used during the construction phase as well as operation phase.
8	A Disaster Management Plan to meet with any eventualities that may arise during construction and/or operation phase shall be prepared implemented.	Complied ERDMP plan is updated and include Phase III expansion. All the recommendation of DMI, Bhopal are incorporated. ERDMP plan is approved from DMI, Bhopal and valid till 29.12.2022. Attached Annexure V for DMI ERDMP certificate for your reference.
9	Necessary permissions/Clearances from different departments/ agencies under different laws/ acts shall be obtained before commencing any enabling activities.	Complied Applicable clearances from following authorities obtained, a copy of same was submitted vide our letter no. PLL/DHJ/MoEF/011 Dt.13 th May, 2014: 1. PESO in principle approval obtained vide letter dated 10/10/2012 [PV(WC)S-784/GJ-II] and letter Dt 19/03/2014[PV(WC)S-784/GJ-II]. Forest Dept. Approval obtained vide letter dated

		30/10/2013, No.FCA-1013/10- 13/11/SF-31-F.
10	A separate Environmental Cell with qualified personnel shall be created to implement the Environmental Management Plan and a separate budget shall be provided for this purpose.	Complied EMC is already setup in the company headed by Sr. Manager (HSE) and supported by six HSE members and it will be used for Environment Monitoring of expansion project.
11	The cost of the external agency that may be appointed by this department for supervision / monitoring of the project activities during construction/ operational phases shall be borne by the PLL.	Noted. PLL agree to born cost of external agency appointed by this department
12	Massive greenbelt development program including the mangrove plantation in 100 ha. shall be carried out in consultation with the Gujarat Ecology Commission/ Forest Department by PLL.	Complied PLL has completed 100 ha. Mangrove Plantation in consultation with Forest Department.
13	A large scale socio-economic upliftment program in consultation with the District Collector/ DDO shall be carried out. A separate budget shall be provided for this purpose and details be furnished to this Department from time to time.	Complied. Please Refer Attached Annexure III for detail.
14	Environmental Audit report shall be submitted every year. The report shall also cover the change in the coastal and marine environment enroute the proposed rerouted pipeline and due to commissioning of the proposed activities.	Complied
15	A six monthly progress reports regarding the compliance of the conditions shall be submitted to this department.	Complied.
16	Any additional condition that may be imposed by the Ministry of Environment and Forests, Government of India/This department from time to time shall have to be complied with by the PLL	Complied No such case till date

ANNEXURE - II - ENVIROMENT DATA

AMBIENT AIR QUALITY STATUS REPORT

								34		All units ar	All units are in µg/m³.
Sr no		PN	PM10	PM	PM2.5	SC	SOx	Ž	NOx	HC as Me	HC as Methane CH₄
	Σ	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
NAAQ norms		1001	100 µg/m³	90 hi	60 µg/m³	80 µ	80 µg/m³	д 08	80 µg/m³	Absent	ent
Jan-20 6	Ø	68.00	92.00	18.00	34.00	10.50	25.60	14.70	30.10	BDL	BDL
Feb-20 6	9	64.00	89.00	19.00	34.00	12.50	23.70	14.70	26.30	BDL	BDL
Mar-20 6	9	68.00	92.00	18.00	34.00	10.80	20.90	14.20	24.00	BDL	BDL
Apr-20					3000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,00				
May-20						no ellon 1		lockdowii			741
Jun-20 6	9	64.00	96.00	18.00	36.00	10.80	23.60	12.60	26.30	BDL	BDL
Jul-20 6	Ð	68.00	96.00	21.00	32.00	10.80	18.70	12.30	22.60	BDL	BDL
Aug-20		52.00	78.00	15.00	25.00	10.40	15.20	13.60	18.10	BDL	BDL
Sep-20		55.00	88.00	14.00	32.00	10.10	18.60	12.10	22.40	BDL	BDL
Oct-20	O. W	00.09	88.00	16.00	33.00	10.20	18.30	14.50	23.40	BDL	BDL
Nov-20		62.00	88.00	14.00	34.00	10.10	18.40	11.20	26.30	BDL	BDL
Dec-20		64.00	96.00	21.00	34.00	10.60	18.70	12.30	22.40	BDL	BDL
Range (Jan-20 to Dec-20)		52.	52-96	14-36	.36	10.1-	10.1-25.6	11.2	11.2-30.1	BDL	J.

tomul

STACK EMISSION AIR QUALITY STATUS REPORT

	NOx	50 ppm	19.80	14.80	17.40	C. P. Jacob	i ockdown	not running	not running	not running	not running	14.60	18.60	18.60	14.6-19.8
GTG	SOx	100 ppm	BDL	TIGB	BDL	CIVOO of out of order	Monitoring not done due to COVID-19 lockdown	Sampling not done as GTGs were not running	Sampling not done as GTGs were not running	Sampling not done as GTGs were not running	Sampling not done as GTGs were not running	BDL	Tae	108	BDL
	SPM	150 mg/NM ³	BDL	BDL	BDL	Mariantina	Mignifoling no	Sampling no	Sampling no	Sampling no	Sampling no	BDL	BDL	BOL	BDL
, to M	INION!	GPCB norms	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Range (Jan-20 to June-20)
S.	5	GF	1	2	3	4	5	9	7	8	6	10	11	12	

BDL: Below Detection Level.

NOISE LEVEL REPORT

Dec-20	Leinh	28	56	52	25	
Dec	Lean	71	22	99	89	
-20	Lnight	52	55	22	56	
NON	ا الم	89	62	99	2	
Oct-20	Lindh	55	53	56	53	
OC	Lday	99	89	65	89	
Sep-20	Lnight	56	45	58	52	
Sep	À	89	99	2	29	
Aug-20	Lnight	55	52	56	54	
Aug	Los	99	29	89	65	
Jul-20	Lnight	56	52	54	58	
Jul	Lday	49	99	89	62	
lun-20	Lnight	52	46	48	22	
Jun	Lday	99	2	89	62	
-20	Lnight		one c	2		
May	Lday		not d	- Lewo		
-20	Lnight		Monitoring not done	aue to covid-19		
Apr-20	Lday		Mon	Ď		
Mar-20	Lnight	51	48	52	49	
Mar	Lday	88	29	99	49	
-20	Lnight	4	42	46	52	
Feb-20	Lday	29	62	49	68	
Jan-20	Lnight	42	4	48	55	
Jan	Lday	89	99	62	49	
<u>.</u>	T	Day-75 db Night-70db	Day-75 db Night-70db	Day-75 db Night-70db	Day-75 db Night-70db	
į.	decibel decibel		decibel	decibel		
Sr no l'ocation	FOOGROUI	North	East	West	South	
2.00	2	1	2	က	4	

Konunda

GROUND WATER QUALITY STATUS REPORT

Srno	Parameter	<u>.</u>	Fet	Feb-20	Jur	Jun-20	Set	Sep-20	Dec-20	-20 -20
5			GW1	GW2	GW1	GW2	GW1	GW2	GW1	GW2
-	Temperature	*C	30	30	31	31	29	29	29	29
2	PH	i e	8.87	8.77	8.63	8.56	8.4	8.4	8.85	8.18
8	Total Dissloved Solids (TDS)	mg/L	2460	2735	2536	3060	3180	3095	2590	2690
4	Chlorides as CL	mg/L	808.1	778.5	885.5	902.6	699.5	655.5	605.4	526
2	Sulphate as SO4	mg/L	189.4	583.8	355	840.5	398	406	227.8	521.2
9	BOD (5 days @ 20°C)	mg/L	10	2	4	3	BDL	BDL	BDL	BDL
7	COD	mg/L	37.3	8.2	12.4	10.3	4.1	BDL	80	16.1
ω	Oil & Grease	mg/L	BDL							
6	Phenolic Compound	mg/L	BDL							
10	Zinc as Zn	mg/L	BDL							
7	Total Chromium as Cr+3	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	TOB	BDL
12	Lead as Pb	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	TOB	BDL
13	Cyanide as CN	mg/L	N.D.	N.D.	N.D.	N.D.	BDL	BDL	BDL	BDL
14	Flouride as F	mg/L	1.09	0.94	1.04	1.25	4.75	4.5	2.15	1.37
15	Copper as Cu	mg/L	BDL							
16	Insecticide	mg/L	Absent							
17	Pesticide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	TOB	BDL
18	Mercury as Hg	mg/L	BDF	BDF	BDL	BDL	BDL	BDL	BDL	BDL
	ND*: Not detected									

MARINE WATER QUALITY STATUS REPORT

, ,		# T	Feb-20	Jun-20	Sep-20	Dec-20
OI.110.	rarameter	HUO HUO	MW	MW	MW	MW
~	Temperature	O _*	30	31	29	31
2	РН	31.	7.98	8.15	7.59	7.44
က	Color	Co-pt	20	20	09	150
4	Total Suspended Solids	mg/L	515	260	55	896
5	Total Dissloved Solids (TDS)	mg/L	27575	31715	13340	22330
9	Chlorides as CL	mg/L	17739.1	23177.2	7597.6	18263
7	Sulphate as SO4	mg/L	2564	1810.5	1234.5	2508
80	BOD (5 days @ 20°C)	mg/L	95	14	12	16
6	COD	mg/L	331.8	49.5	42.7	54.2
10	Oil & Grease	mg/L	BDL	BDL	BDL	BDL
11	Phenolic Compound	mg/L	BDL	BDL	BDL	BDL
12	Zinc as Zn	mg/L	0.087	0.092	0.086	0.078
13	Total Chromium as Cr+3	mg/L	0.076	0.071	0.068	0.056
14	Lead as Pb	mg/L	BDL	BDL	BDL	BDL
15	Cyanide as CN	mg/L	BDL	BDL	BDL	BDL
16	Flouride as F	mg/L	1.07	1.12	4.4	1.3
17	Copper as Cu	mg/L	BDL	BDL	BDL	BDL
18	Insecticide	mg/L	N.D.	N.D.	N.D.	N.D.
19	Pesticide	mg/L	Absent	Absent	Absent	Absent
20	Mercury as Hg	mg/L	N.D.	N.D.	BDL	BDL
21	Hexavalent Chromium as Cr+6	mg/L	N.D.	N.D.	BDL	BDL
22	Nickel as Ni	mg/L	0.117	0.122	0.122	0.109

norcells

ANNEXURE -III

CSR DETAILS

PLL has constructed a temple at the site for the local people and has contributed towards infrastructure in the area for roads and drinking water.

Community development and welfare measures are taken. Village Luwara has been jointly adopted along with another nearby industry, as directed by PCPIR Welfare Society. Separate fund allocated for CSR.

Some of the schemes completed/under progress are Health Center (construction & operation), drainage and provision of street lights at Village Luwara. Rupees 75 lakh contributed to PCPIR Welfare Society. Two ladies from Luwara village sponsored for nursing course at Vidhyadeep Community college, Bharuch. Sponsored construction of Sanitation scheme at village Muller. Active participation in other Government initiated community development programs.

Installed 10 nos. Emergency solar lighting at prominent places in village Luwara. Donated Rs.1 lac for Bharuch District Civic centre development. Participated in Govt. scheme on KanyaKelvani. Installation of drainage crossings to remove accumulated water at 4 locations within the village Luvara at a cost of Rs. 0.8 lacs. Construction of approach road in village Lakhigaon, Dahej.

PLL has sponsored 'Mataria Talav drinking water project' of the Bharuch Municipality Corporation. This project is for the supply of sweet drinking water from the Narmada River to the residents of Bharuch city. MD&CEO handed over cheque for Rs. 25 Lacs to the Collector, Bharuch on 13/06/2011 and further, PLL added Rs. 20 Lacs for the 'MatariaTalav drinking water project'

PLL installed 50 nos. Emergency solar lighting at prominent places in village Luwara& 10 nos. Emergency solar lighting at prominent places in village Lakhigam of Vagra Taluka in Bharuch District. Provided School Bus to Primary School at Lakhigam Village and also running Primary Health Center at Luvara Village. PLL constructed Bus-stand and extended Gram Panchayat Bhavan building at Luvara Village.

PLL installed 25 Nos. of Solar lights at prominent places in village Lakhigam and Luwara. Contributed Rs. 20 Lakhs in Akshay Patra mid-day meal scheme at villages in and around Dahej location. Also, contributed Rs. 10.00 Lakhs in Gujarat Lion Conservation Society towards procurement of Vehicle.

ARROCALLY

Primary health services to Luvara village, Gynec health and Pulse Polio campaign (Pakhajan PHC). PLL supported noble cause of Construction of Storm water drainage at Shravan Chokdi to Jambusar by pass (over bridge) in Bharuch. This project is executed under District Collector office.

Request from CDHO (Chief District Health Officer) was received to participate in various health initiatives. PLL agreed during meeting with DM to provide the ambulance for PHC, Pakhajan Village of Vagra Taluka. PLL is supporting Luvara School for reference books, uniform, school picnic and creating awareness on environment, health, safety and security aspects through various programs regularly, rewarding bright students etc. PLL celebrated Shala Pravesh Utsav at Luvara School and distributed tool box to children.

Bharuch has problem of solid waste management and garbage disposal. To improve on cleanliness of the town, PLL is supporting initiative of GREEN BHARUCH CLEAN BHARUCH by donating two dumper placer worth Rs. 23.94 Lakh.

Due to delay in recruitment of teachers, primary schools in and around Dahej has 40% teaching staff. To support education by deploying young educated teachers, PLL sponsored 14 teachers in 4 schools of villages of Dahej, Lakhigam and Luvara.

PLL constructed 11hosues of homeless tribes in Luvara village at a cost of 25 Lakh. PLL initiated drive to make Luvara open defectaion free by sponsoring toilets for 172 houses at a cost of Rs. 17.2 Lakh.

As a part of initiate for Swachh Bharat Abhiyan, PLL constructed five toilet blocks for school at Lakhigam, Luvara, Ambetha, Jageshwar & Dahej. Also, PLL has constructed 91 Toilet blocks at an estimated expenditure of Rs. 172 Lakhs for various schools in fifteen district of Assam in co-ordination with Rashtriya Madhiyamik Siksha Abhiyan (RMSA).

Cancer screening done (Pep and Breast) for female above 18 years at Luvara village. Establishment of equipment for Ultra Sonography Ward done at General/Civil Hospital, Bharuch. Motivational Awards (Academics and punctuality), School kit and reference books given for Luvara School students. Nutrition and clothing kit (105 nos.) was given to under nourished baby and mother.

PLL has sponsored Drawing competition, Educational tour and uniform distribution at Primary School Luvara. PLL sponsored Medical Equipment such as Eye sight testing, ECG Machine, Spirometer, Pulse Oxymeter etc. to Luvara Primary Health Centre. PLL also celebrated Swatch Bharat Pakhwada during 16th June, 2016 to 30th June, 2016 in co-ordination and consultation with neighboring villages, communities, schools etc.

The launch of Project Vidhyagam was organized in Luwara Primary School wherein a classroom library for std. 7 & 8 students is setup. About 130 books (syllabus and general reading including comics, biographies, story books, general knowledge, science fiction in Gujarati, Hindi and English language) has been kept in the library. The idea behind this project is that students develop interest in reading and thus studying. The PLL Disha Ladies Club organized for food and distribution of educational kits for 65 girls in the Orphanage in Bharuch on 11th Sept 2016. A focused group discussion on importance of hygiene and cleanliness was organized by Ladies club members as well.

Roofing item worth Rs. 2 Lacs was provided to the Gram Panchayat Office of Luwara Village for construction of house for 10 tribal families living below the poverty line. This material consisted of cement roof, channel, and hooks. It is expected that the construction of houses will be done by mid-January 2017.

Petronet LNG Limited celebrated the World Sight Day on 13th October 2016 by organizing the Eye Screening Camp for contractual labor at the company premises. The camp was organized in association with Wockhardt Foundation and about 200 labor and 60 employees participated in the same. During the camp; 125 specs and 60 unit of drops were distributed to beneficiaries based on assessment by Doctors.

On the occasion of 147th birth anniversary of Father of Nation Shri Mahatma Gandhi Health and Hygiene talk, Swachhta Selfie Campaign, Drawing Competition at Govt. High School, Lakhigam and other activities were organized as part of Swachh Bharat Abhiyaan.

It is observed that there is a shortage of regular teachers in local schools and severely hampering the quality of education of poor children in schools. To mitigate this problem, PLL has started supporting para teachers in local school and ensuring improvement in quality of education in local schools.

PLL CSR team participated in world school day celebration on 23 March, 2017. As a part of celebration PLL has distributed Uniforms to Std. 8th Students. It was decided to provide two pair of uniforms to all students in school. The uniforms were prepared by Sardar Mahila Vikas Mandal a group of tribal women for employment generation and livelihood opportunity. PLL provided work order worth of Rs. 2,23,980/-

As the students studying in primary schools are coming from BPL and poor families, most of the families are not able to afford educational tours for their children. Every year school is organizing such tour sponsored by PLL. Students will get exposures to various places and gain experience. About 150 students get benefit of this tour and

16malder

places covered like Dwarka, Somnath, Porbandar, Smruti Mandir, Naheru Planetorium, Sasan Gir etc.

PLL had sponsored community mass marriage of weaker community, participated in Shala Pravesh Utsav 2017, planted 150 of trees in nearby villages, distributed food packages during water logging observed at nearby villages, supported empowerment of Special children, engaged contractor for repair and maintenance of Toilets in nearby School, arranged cessions for awareness on solid waste management at school.

PLL supported 10th Special Olympics, Bharuch in January, 2018, sponsored project "Kaushal Setu" Skill Development Program with CIPET, Ahmedabad and trained 100 underprivileged youth, supported educational tour for Primary School of Luvara Village, provided para-teachers at school of nearby villages, sponsored community mass marriage of weaker community, supported "Startup Village" project towards Rural Youth Entrepreneurship Development Program, Supporting Swachh Bharat Abhiyan by District Administration Bharuch (Heritage Walk).

PLL signed MoA with Samagra Shiksha Abhiyan, Department of Education, Govt. of Gujarat on 23rd Jan. 2019 at Govt. Primary School, Luvara village for the Development of Primary School at Luvara Village. PLL supported District Level Special Olympics Games which was organized on 23rd February 2019. Around 250 special children, 150 volunteers including PLL volunteers and coaches participated during the event.

(July, 2019 to Dec. 2019)

PLL has signed MoU with ALIMCO to provide Aids and Equipment to disables of Bharuch District. PLL has signed MoU with Wockhardt Foundation to run Mobile Medical Unit (MMU) in nearby villages of PLL plant area. PLL has signed MoU with NHFDC to provide skill training to disable youth of Bharuch District. PLL has supported relief camp for affected community near Lakhigam during monsoon season.

(Jan. 2020 to June 2020)

PLL has conducted assessment camps at Jambusar and Vagra Taluka of Bharuch District to Aids and Equipment to disables. Kaushal Setu Skill Training with CIPET Ahmedabad 78 candidates have complated the training and 90% of them got job with the salary range of Rs. 9000 to Rs. 12000. PLL has conducted District Level Special Olympics in parnership with Kalrav Trusy Bharuch and Special Olympics, Gujarat. As a part of COVID-19 pendemic response, PLL has contributed Rs. 34.00 lakhs to

District Health Office, Bharuch to proqure PPE Kits, Masks and Senitise materils for COVID-19 worriers. PLL has provides 4300 nos. of Ration kits worth of Rs. 25.00 lakhs to Migrant Labours, and Poor Families of nearby villages. Petronet LNG Limited (PLL) under its CSR initiatives aims at distributing 1,00,000 face masks to the migrant labor communities, slum dwellers, nearby hospitals, local police authorities & Government Offices to combat COVID-19 in the Bhaurch District of Gujarat.

(July 2020 to December 2020)

PLL has supported Construction of Priamry School, at Luvara village worth of Rs. 1,71 Crore. Construction is about to complete by March, 2021. PLL has distributed aids and equipment to about 250 disable beneficiaries at Jambusar and Vagra Taluka of Bharuch District. As a part of COVID-19 pandemic response, in addition to supporting District Health Office (CDHO) and Distributing Rations Kits to to Migrant Labours, and Poor Families of nearby villages, PLL has prepared 1,00,000 cotton masks through Women SHGs of Bharuch Distrcit. About 80 women got indirect employment during pandemic through this initiative. These masks were distributed among local communities of nearby villages, health workers, labour community, Nagarpalika Sawachhta Karmchari, Special Children and their families, Vegetable vendors, Local Police authorities, Government Offices, Security Guards, PLL employees also participated in mask distribution initiative. These masks were made of Cotton considering it environment aspect for reusable and biodegradable properties.

Braulds



ENGINEERING DESIGN BASIS STATIC EQUIPMENT

SECTION-2 DOCUMENT No. A324-000-16-46-DB-01 Rev. 0

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ENGINEERING DESIGN BASIS (STATIC EQUIPMENT)

PROJECT: LNG TERMINAL AT DAHEJ

CLIENT: M/s PLL

JOB NO.: A324

(EIL) (PLL)

Rev. No	Date	Purpose	Prepared by	Checked by	Approved by
Α	25-05-2012	ISSUED FOR CLIENT'S COMMENTS/APPROVAL	RS	TG	RKT
0	07.09.2012	ISSUED AFTER CLIENT COMMENTS INCORPORATED	RS	TG	RKT



ENGINEERING DESIGN BASIS STATIC EQUIPMENT

SECTION-2 DOCUMENT No. A324-000-16-46-DB-01 Rev. 0

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PART – 2 (DESIGN PHILOSOPHY)	6



ENGINEERING DESIGN BASIS STATIC EQUIPMENT

SECTION-2 DOCUMENT No. A324-000-16-46-DB-01 Rev. 0

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1.0 REFERENCED PUBLICATIONS

a) Codes and Standards:

The following codes and standards in their latest edition including latest addenda as on the date of first issue of this design basis shall be followed unless otherwise specified in the requisition for the design, fabrication, inspection and testing of Vessels, Double Wall Storage Tanks, Air coolers & heat exchangers:

ASME SEC. VIII DIV.1 For Pressure Vessels, Heat

Exchangers

ASME SEC. II For material specification

ASTM For material specification

ASME SEC. V Non Destructive Examination

ASME SEC. IX For welding

ASME B31.3 Process piping

BS EN 14620 PART I TO V Flat bottom, vertical, cylindrical tanks for storage of refrigerated,

liquefied gases with operating temperatures between 0° C and (-)

165° C

BS 8110 + Amendements Structural use of concrete

BS EN 1473 Installation and equipment for LNG-

design of onshore installations

API 620 For Low Pressure Storage Tanks

API 2000 Venting atmospheric and low

pressure storage tanks, Non

refrigerated and refrigerated

API 2003 Protection against ignitions arising

out of static, lightning & stray

currents

API 678 Accelerometer Based Vibration

Monitoring System - Reaffirmed

(1987)

API 2550 Standard Methods for

Measurements and calibration of

upright cylindrical tanks

ACI 373 Design & construction of circular

prestressed concrete structures



ENGINEERING DESIGN BASIS STATIC EQUIPMENT

SECTION-2 DOCUMENT No. A324-000-16-46-DB-01 Rev. 0

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ACI 305R	Hot weather concrete
ASTM 549 NFPA 59A	Perlite loose fill insulation Production, storage & handling of LNG
NFPA 70	National Electric Code
NFPA 780	Standard for Installation of
FIP recommandations	Lightning protection system Acceptance and application of post tensioning system
PI-201-77	Compacted density
OISD 194	Standard for the storage and handling of LNG
IS: 875/SITE DATA	For wind load consideration
IS: 1893/SITE DATA	For seismic design consideration
ASME B 16.5	Steel Pipe flanges and pipe fittings
ASME B 16.47	For large diameter flanges
ASME B 16.20/ B 16.21	For gaskets
TEMA Class R	For shell and tube Exchanger

TEMA Class R For shell and tube Exchanger

API 661 For Air Cooled Exchanger

IS 800 For Air Cooled Exchanger Structural Design

b) Statutory Provisions:

National laws and statutory provisions together with any local by-laws for the state shall be complied with. Static and Mobile Pressure Vessel (SMPV) rules and OISD norms as applicable shall also be complied with.

2.0 DESIGN PHILOSOPHY / GENERAL CRITERIA

Equipment shall be designed in compliance with the latest design code requirements and applicable standards/ specifications. All design calculations shall be performed considering all applicable loads for erection, operating and hydro test conditions.

2.1 Full Containment with Prestressed Concrete Outer Tank Wall

The storage tanks are to be above ground, flat bottom, and vertical full containment Prestressed cylindrical type. The under face of the concrete slab shall be minimum two meter above the ground, contractor for Storage Tank during detail engineering shall work out the actual height of the concrete slab.

A concrete outer tank and a roof constructed of reinforced concrete with carbon steel vapor barriers on the inside of the wall & base slab.



DISASTER MANAGEMENT INSTITUTE (DMI), BHOPAL

(An ISO 17020:2012 Accredited Institute)

ERDMP CERTIFICATE

This certificate has been awarded to

M/s Petronet LNG Limited

Dahej Dist. Bharuch (Gujrat) 392130 (India) GIDC Industrial Estate, Plot No. 7/A,

Disaster Management Plan" which complies with the n recognition of the entity's "Emergency Response & requirements of PNGRB Notification G.S.R. 39(E) PNGRB "Codes of Practices for Management Plan (ERDMP) Regulations, 2010" **Emergency Response and Disaster**

Issued by

Expiry Date: 29.12.2022

Date of Issue 30.12.2019

Dr. Rakesh Dubey

usTDirecto



Certificate Number: 1615/ERDMP-126/Petronet LNG Limited/ Gujrat/2018-19 Annexuse-VI



Dahei Expansion Phase MA LNG Regasification Facilities PLD: A.F.



F&G Mapping Study

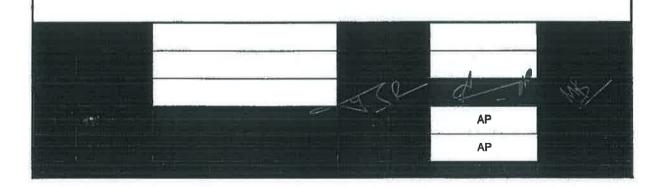
PROJECT NAME

: DAHEJ EXPANSION PHASE - IIIA

LNG REGASIFICATION FACILITIES

OWNER

: PETRONET LNG LTD





Broads



Dahej Expansion Phase IIIA LNG Regasification Facilities PLD3A/R



ISSUE DATE: 17.04.2015

F&G Mapping Study Report

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Dahej Expansion Phase IIIA LNG Regasification Facilities PLD3A/R



ISSUE DATE: 17.04.2015

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Petronet LNG Limited

GIDC Industrial Estate, Plot No. 7/A, Dahej,
Taluka: Vagra, Dist. Bharuch (Gujarat) - 392130 (India)
Tel.: 02641-300345 / 300405, Fax: 02641-300310 / 300306
www.petroneting.com

CIN: L74899DL 1998PLC093073 GST No. : 24AAACP8148D1ZM

Ref.: PLL/DHJ/HSE/GPCB/2020/10

Date: April 15, 2020

To.

Gujarat Pollution Control Board Paryavaran Bhavan Sector-10 A GANDHINAGAR – 382 010

Sub: Environmental Statement for the financial year April 2019 to March 2020

Dear Sir,

Enclosed Please find Environmental Statement (FORM – V) for the financial year April 2019 to March 2020 for your kind perusal.

Thanking you?

Yours faithfully,

For Petronet LNG Limited

S B Singh

GGM & President (Plant Head)

Encl: As above

Copy to:

Gujarat Pollution Control Board, Bharuch

FORM-V **ENVIRONMENTAL STATEMENT** (See rule 14)

Environmental Statement for the financial year ending with 31st March 2020

PART - A

i. Name and address of the owner/occupier of the industry operation or process:

Mr. S B Singh GGM & President (Plant Head) M/s Petronet LNG Limited Plot.7/A, GIDC Industrial Estate Dahej, Taluka Vagra Dist. Bharuch - 392130 Ph. 02641-300300 Fax. 02641-300310

ii. Industry category Primary-(STC Code) Secondary-(STC Code)

Not Applicable.

iii. Production category - Dahej Unit.

17.5 MMTPA (Million Metric Tons per Annum) Regasification Capacity Receipt of LNG through Ship, storage, Regasification and Despatch of Natural Gas

- iv. Year of establishment: 2^{6d} April, 1998
- v. Date of the last environmental statement submitted: 12th April, 2019

PART - B

Water and Raw Material Consumption:

i. Water consumption in m³/d:

Process

: Nil

Cooling

: Nil

Domestic : 21.2 m³/day

	Process water consumption per unit of product output		
Name of Products	During the previous financial year	During the current financial year	
Regasified Liquefied Natural gas (RLNG)	Nil	Nil	

ii. Raw material consumption:

Name of raw	Name of Products	l '	v material per unit of tput
materials*		During the previous financial year (F.Y. 2018-19)	During the current financial year (F.Y. 2019-20)
1. Liquefied Natural Gas (LNG)	RLNG	14.928 MMTPA	16.186 MMTPA
		20690.53 MMSCM of send out RLNG	22285.79 MMSCM of send out RLNG
	Metric Standard Cubic Metric Ton per Annum		

^{*} Industry may use codes if disclosing details of raw material would violate contractual Obligations, otherwise all industries have to name the raw materials used.

PART – C
Pollution discharged to environment/unit of output:
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water, (b) Air	No effluents generated	Not Applicable	Not Applicable
(Stack emissions from Gas Turbine Generator)		SPM: Nil SOx: Nil NOx: 19.8 ppm	Concentration of pollutants discharged is well within the GPCB norms.

PART - D HAZARDOUS WASTES

(as specified under Hazardous and Other Wastes (Management & Trans boundary Rules, 2016)

	Total Qua	antity (Kg)
Hazardous Wastes	During the previous financial year (F.Y. 2018-19)	During the current financial year (F.Y. 2019-20)
1. From Process	Nil	Nil
2. From Pollution Control Facilities	Nil	Nil
3. Used oil	3,150 Liters	3,990 Liters
4. Waste Residue containing Oil	360 Kgs	Nit
5. Insulation Waste	Nil	750 Kgs

Page 2 of 5

PART- E
SOLID WASTES

	Total Q	uantity (Kg)
Solid Wastes	During the previous financial year (F.Y. 2018-19)	During the current financial year (F.Y. 2019-20)
a. From process	Nil	Nil
b. From Pollution Control Facility	Nil	Nil
c. (1) Quantity recycled or re- utilized within the unit.	Nil	Nil ·
(2) Sold :	Nil	Nil
(3) Disposed: a) E Waste	655 Kg	470 Kg

PART-F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous waste: Used oil 3,990 Liters (Disposal through GPCB approved Recycler/ Preprocessor, M/s R.K. steel, Bharuch)

Solid Waste: Insulation waste of 750 Kg dispossed to approved TSDF site of M/s Bharuch Enviro Infrastructure (BEIL), Dahej for landfilling process.

E-Waste : Total 470 Kg E - waste dispossed to GPCB approved agency , M/s Earth E Waste Managemnet Pvt. Ltd. , Surat

Lead Acid Batteries: Total 28 nos batteries are disposed off through supplier buy back system under Batteries (Management and Handling) Amendment Rules, 2010. Details are as follows.

Sr No	Date	Description	Quantit y (Nos)	Agency
1	29.04.2019	Waste Battery 12V, 26AH	22	Laxmi Battery
2	29.04.2019	Waste Battery 12V, 7AH	02	Laxmi Battery
3	18.10.2019	Pulse Lite Battery, 12V, 160 AH	04	Deccan Sales & Service

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

Regular Environmental monitoring is carried out through GPCB approved agency. (M/s. Unistar Environment & Research Labs Pvt. Ltd, Vapi) and monitored results are well within the consent limit

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

The total Green Belt area approximately 1,66,000 Sq. meters has been allocated in and around periphery wall. Whereas, PH-I & PH-II green belt has been developed and maintained and the PH-III green belt (57,000 Sqm) area development has been initiated. In addition to this, the total lawns / green cover developed & maintained till date is 40000 Sq.m.

S.No	Financial Year	Amount Spent (Rs. In Lacs)	Purpose of Investment
1	2009-10	33.22	Development & maintenance of Green belt and Mangrove Plantation during the year.
2	2010-11	55.00	Development & maintenance of Green belt and Mangrove Plantation during the year.
3	2011-12	93.31	Development & maintenance of Green belt and Mangrove Plantation during the year.
4	2012-13	109.57	Development & maintenance of Green belt and Mangrove Plantation during the year.
5	2013-14	95.20	Development & maintenance of Green belt and Mangrove Plantation during the year.
6	2014-15	88.83	Development & maintenance of Green belt and Mangrove Plantation during the year.
7	2015-16	42.20	Development & maintenance of Green belt and Mangrove Plantation during the year.
8	2016-17	77.96	Development & maintenance of Green belt and Mangrove Plantation during the year.
9	2017-18	71.08	Development & maintenance of Green belt during the year.
10	2018-19	60.93	Development & maintenance of Green belt during the year.
11	2019-20	51.11	Development & maintenance of Green belt during the year.
	Total	778.41 Lacs	

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PART-I

Any other particulars for improving the quality of the environment.

Total 1150 ha. Mangrove Plantation undertaken along the Gujarat Coast till date as furnished below:

S.No	Financial Year	Covered Area	Location	Consultation with Forest Department/ GEC
1	2009-10	50 ha,	NadaVillage, Jambusar, Bharuch	Gujarat Ecology Commission (GEC), Govt. of Gujarat
2	2010-11	100 ha.	AnkalvaVillage, Hansot, Bharuch	Gujarat Ecology Commission (GEC) , Govt. of Gujarat
3	2011-12	200 ha.	AnkalvaVillage, Hansot, Bharuch	Gujarat Ecology Commission (GEC) , Govt. of Gujarat
4	2012-13	200 ha.	AnkalvaVillage, Hansot, Bharuch	Gujarat Ecology Commission (GEC) , Govt. of Gujarat
		100 ha.	RoniyaBhatha, Nr. Nirma, Bhavanagar	Bhavnagar Forest Division, Govt. of Gujarat
5	2013-14	200 ha.	RoniyaBhatha, Nr.Lock Gate, Bhavanagar	Bhavnagar Forest Division, Govt. of Gujarat
6	2014-15	200 ha.	RoniyaBhatha, Nr.Lock Gate, Bhavanagar	Bhavnagar Forest Division, Govt. of Gujarat
7	2014-15	50 ha.	Kentiyajal, Hansot Bharuch	Bharuch Forest Sub-Division, Govt. of Gujarat
8	2016-17	50 ha.	Gadula Village, Talaja Taluka, Mahuva, Bhavnagar	Bhavnagar Forest Division, Govt. of Gujarat
*	Total	1150 ha.	-	

(Signature of person carrying out an industry – operation or process)

Name:

Mr. S B Singh

Designation:

GGM & President (Plant Head)
M/s Petronet LNG Limited

Address:

Plot.7/A, GIDC Industrial Estate

Dahej, Taluka Vagra Bharuch – 392130 Ph. 02641-300300

HDFC ERGO General Insurance Company Limited



June 05, 2020

Petronet Lng Limited

1st Floor, World Trade Center, Babar Road, Barakhamba Lane, New Delhi, New Delhi, Delhi, Central Delhi, Delhi-110001

Pan Card Number: AAACP8148D

Dear Customer,

Sub: Business Public Liability Insurance (Under PLI Act 1991) Policy No: 3133202819437401000

We thank you for having preferred us for your *Insurance* requirements. We at HDFC ERGO General Insurance believe "*Insurance*" as not only to be an assurance to indemnify in the event of unfortunate circumstances, but one that signifies protection and support, which you can count on when you need it most.

The Insurance Policy enclosed herewith is a written agreement providing confirmation of our responsibility towards you that puts insurance coverage into effect against stipulated perils.

Please note that the policy has been issued based on the information contained in the proposal form and / or documents received from you or your representative / broker.

Name of the Intermediary: NA

Intermediary Code: NA

Where the proposal form is not received, information obtained from you or your representative /broker, whether orally or otherwise, is captured in the policy document.

If you wish to contact us in reference to your existing policy and /or other general insurance solutions offered by us, you may write to our correspondence address as mentioned below. Alternatively, you may visit our website www.hdfcergo.com. To enable us to serve you better, you are requested to quote your Policy Number in all correspondences.

Thanking you once again for choosing HDFC ERGO General Insurance Company Limited and looking forward to many more years of association.

Yours sincerely,

Authorised Signatory

Vargotra

Page 1 of 11



Public Liability Insurance (Under PLI Act 1991)

:

SCHEDULE

Policy No: 3133202819437401000

Item 1. Insured Petronet Lng Limited

Item 2.

Producer

Not Applicable 4

Item 3.

Financial Interest

Not Applicable

Item 4.

Mailing address of the Insured

1st Floor, World Trade Center, Babar Road, Barakhamba Lane, New

Delhi, New Delhi, Delhi, Central Delhi, Delhi, 110001.

Item 5.

Pan Card Number

AAACP8148D

Item 6. **Business** LNG receiving and regasification

Policy Period Item 7.

From 00:01 hours :

02 June 2020

To (Midnight)

01 June 2021

Premium Item 8.

Rs. 41,501.00

Item 9.

Premium & Coverage Statement

Refer to Page 2

9.1 **Premium Computation**

9.2

Insurance Limits & Excess

Clauses, Conditions & Warranties : Item 10.

Form Number	Form Name	Effective Date	Date Issued	
PL-02-0032	Policy Schedule	2 June 2020	05 June 2020	
PL-02-0031	Insurance Contract	2 June 2020	05 June 2020	
PL-02-0039	Infectious Disease or COVID-19 Exclusion	02 June 2020	05 June 2020	

Subject otherwise to terms and conditions of Public Liability Insurance Policy.

Signed for and on behalf of HDFC ERGO General Insurance Company Limited, on 05 June 2020

Authorised Signatory

GST Registration No: 07AABCL5045N1ZA. The contract will be cancelled ab intio in case; the consideration under the policy is not realized.

" The stamp duty of ₹ 0.50 paid by Demand Draft, vide Receipt/Challan no. CSD/293/2020/385/2020 dated 24/01/2020 as prescribed in Government of Maharashtra Order No. Mudrank-2017/CR.97/M-1, dated the 09th January 2018".

Note: Where the proposal form is not received, information obtained from insured, whether orally or otherwise, is captured in the policy document. Discrepancies, if any, in the information contained in the policy document may be pointed out by an insured within 15 days from the policy issue date after which information contained in the policy document shall be deemed to have been accepted as correct.

Ground Floor, Eros Tower Opp. Nehru Place Metro Station, South Delhi, 110019. Tel.: +91-11-30294200 **Branch**

HDFC ERGO General Insurance Company Limited



Warranties:

Warranted that there are no known losses and /or circumstances leading to losses (except for the claims and / or circumstances already reported to HDFC ERGO General Insurance Co. Ltd.

This policy document is issued basis the information provided though request for quotation and/ or unsigned proposal form and / or other details provided by the insured / insurance intermediary and/ or though discussions and our final quote sheet issued to you enabling the insurer to decide the terms and conditions of insurance contract.

Your are requested to inform us within 15 days of receipt of the policy document in the event of any error or omission in the information provided.

HDFC ERGO General Insurance Company Limited



Premium & Coverage Statement

(Item. 9 of Schedule, Attached to and forming part of Policy No: 3133202819437401000)

9.1 Premium Computation

Premium Details	Amount (Rs.)
Net Premium	19,037.00
GST 18%: Central Tax 9% (Rs. 1713.33) + State Tax 9% (Rs. 1713.67)	3,427.00
Add: Contribution to Environment Relief Fund	19,037.00
Total Premium	41,501.00
Invoice Number :	0060500481871
GSTN:	07AAACP8148D1ZI
Place of Supply	Delhi
SAC Code	997139

9.2 Insurance Limits & Excess

Insurance Limits

Details	Amount (Rs.)
Each Accident Insurance Limit	50,000,000.00
Aggregate Insurance Limit	150,000,000.00

Excess

Compulsory Excess

Not Applicable

Voluntary Excess

Not Applicable

Annexure IX Upload of Half Yearly Returns on Company Website

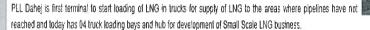




The Company had set up South East Asia's first LNG Receiving and Regasification Terminal with an original nameplate capacity of 5 MMTPA at Dahej. Gujarat. The infrastructure was developed in the shortest possible time and at a benchmark cost. The capacity of the terminal has been expanded in phases which is currently 17,5 MMTPA. The terminal has 6 LNG storage tanks and other vaporization facilities. The terminal is meeting around 40% of the total gas demand of the country.

The terminal has two LNG Jetties at Dahej. While the first jetty can handle berthing of up to Q-Flex vessels, the second jetty can handle berthing of up to Q-Max vessels.

Dahej terminal has received more than 2200 cargoes. The terminal is also offering tolling services to Offlakers & Bulk customers. To caler the small customers who are not having gas pipeline connectivity. Dahej is supplying LNG to such customers which is transported through cryogenic trucks.



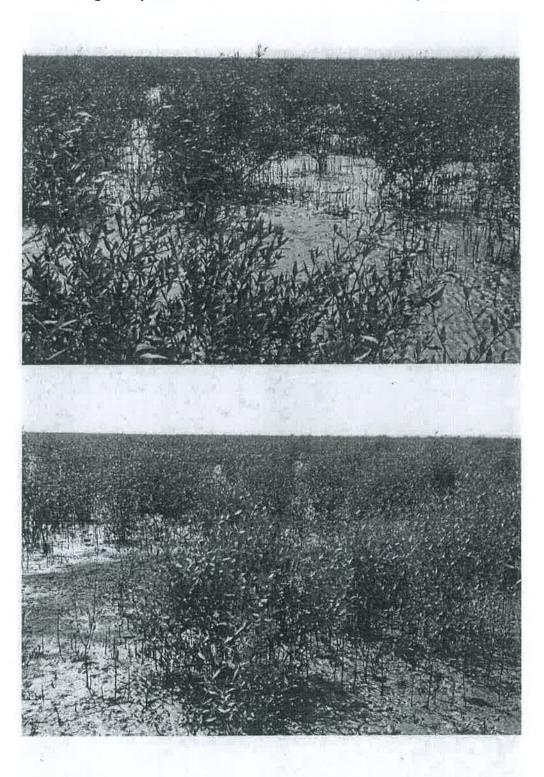


- © Environmental and CRZ degrance for Installation of Terminal facilities to handle 10 MMTPA of additional LNG at PEL_Dahej
- 5 Environmental Statement (Form V) for the FY 2018-19

MoEF & CRZ Compliance Report		
Description	Status Report	
Haif yearly MoEF & CRZ compliance report for Standby Jelly	30.06.2020	
Haif yearly McEF & ORZ compilance report for Phase III	30.06.2020	
Half yearly MeEF & CRZ compliance report for Phase II	30.06.2020	
Half yearly MoEF & CRZ compliance report for Phase I	30.06.2020	
half yearly MoEF & CRZ compliance report for Standby Jetly	31.12.2019	
Haif yearly MoEF & CR2 compliance report for Phase III	31,12,2019	
Half yearly MoEF & CRZ compliance report for Phase II	31,12,2019	
Half yearly McEF & CRZ compliance report for Phase I	31,12,2019	
Half yearly MoFF & CR7 compliance report for Standey Jelly	30 06 2019	

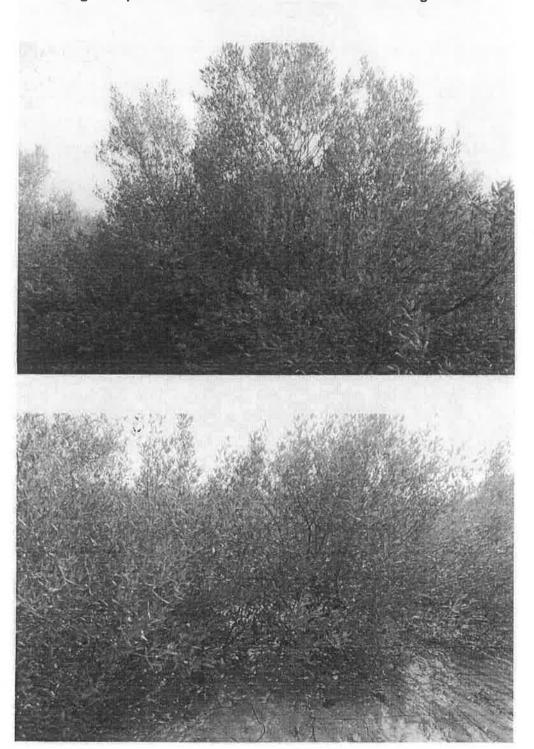
Pornailed.

Mangroves planted in 50 ha. area at NADA Coast during 2009-10

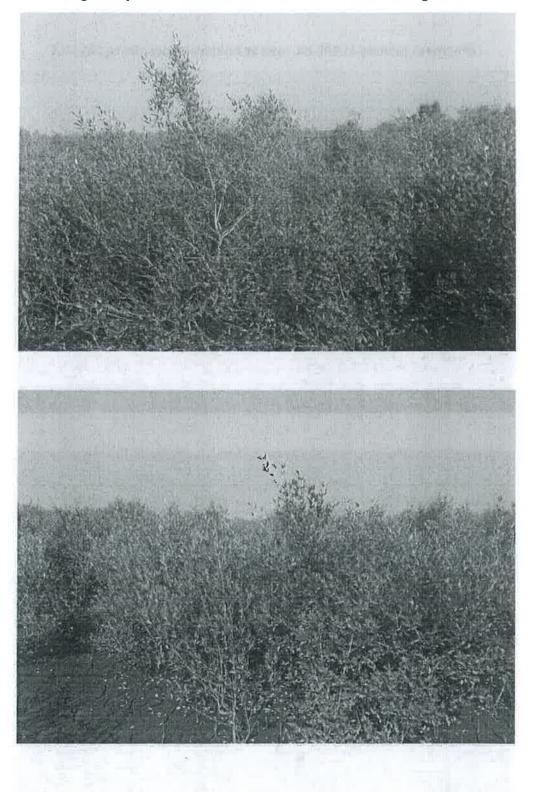


Ronally

Mangroves planted in 100 ha. area at Ankalva Coast during 2010-11

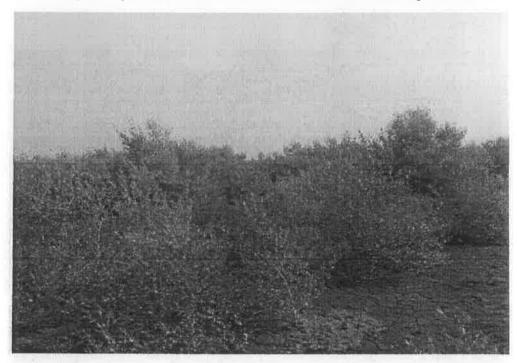


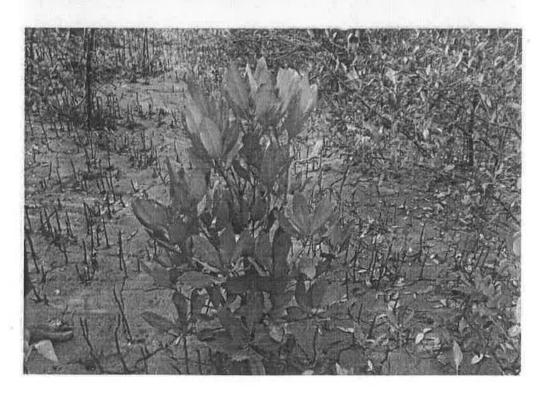
Mangroves planted in 200 ha. area at Ankalva Coast during 2011-12



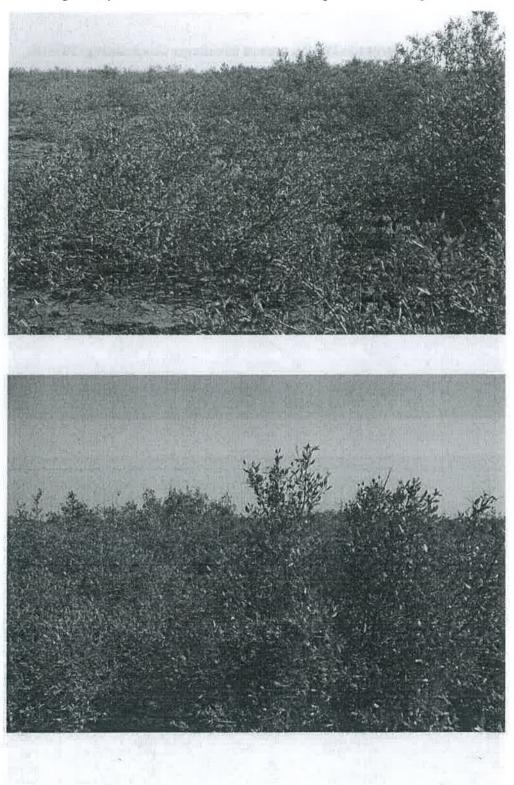
18 malila.

Mangroves planted in 200 ha. area at Ankalva Coast during 2012-13





Mangroves planted in 100 ha. area at Bhavnagar Coast during 2012-13



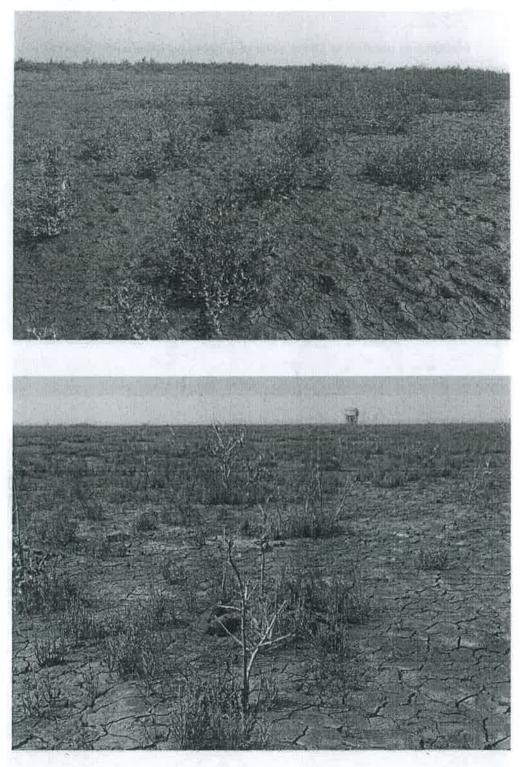
Broakle

Mangroves planted in 200 ha. area at Bhavnagar Coast during 2013-14





Mangroves planted in 200 ha. area at Bhavnagar Coast during 2014-15



Bonard

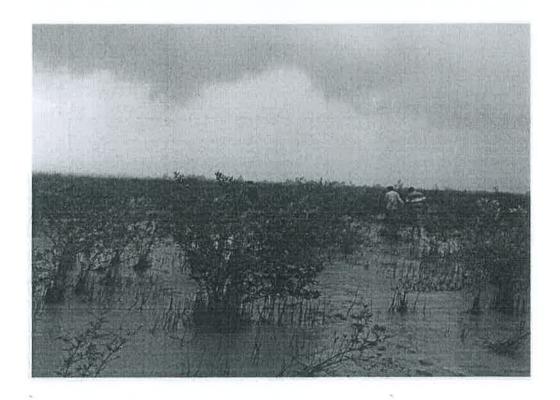
Mangroves planted in 50 ha. area at at Kentiyajal Coast during 2014-15





Mangroves planted in 50 ha. area at Gadhula, Talaja Coast during 2016-17





Renceelder