

RELIANCE SYNGAS LIMITED

CIN: U24304GJ2021PLC126977

Dated: 28th November '2023

To,

The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office,
A Wing - 407 & 409, Aranya Bhawan,
Near CH - 3 Circle, Sector - 10A,
Gandhinagar, Gujarat - 382 010

Sub: Six Monthly EC Compliance Reports of M/s. Reliance Syngas Ltd., Jamnagar, for the period ending 30th September '2023.

Dear Sir,


Please find herewith the Six-monthly EC compliance reports of M/s. Reliance Syngas Ltd., Jamnagar for the period 01st April '2023 to 30th September '2023.

The compliance and monitoring reports are being submitted as per the requirements of EIA Notification 2006.

Thanking you,

Yours truly,

For Reliance Syngas Ltd.



Authorized Signatory

CC : The Regional Officer, Gujarat Pollution Control Board. Sardar Patel Bhawan, Rameshwar Nagar, JAMNAGAR.

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ENVIRONMENT CLEARANCE COMPLIANCE & MONITORING REPORT

Six Monthly Report
(01st April '2023 to 30th September '2023)

Reliance Syngas Ltd. (RSL)
Jamnagar

Reliance Syngas Limited (RSL), Jamnagar
Compliance Report for the conditions of Environment Clearance granted by MoEF&CC vide
letter no.: J-11011/149/2007–IA II (I) Dt. 06.07.2022 for operating Petcoke Gasification plant (8.75
MMTPA) at Jamnagar in name of M/s RSL, for six months ending 30th Sept '2023.

Project Status: The Petcoke Gasification Plant, which is operational under earlier RIL EC J-11011/149/2007–IA II (I) Dt. 30.03.2010, has been split in the name of M/s RSL. M/s RSL CTE and provisional CTO is obtained from GPCB.

Sr. No.	Stipulations	Status of Compliance
1.	This has reference to your online proposal No. IA/GJ/IND2/268396/2022, dated 28th April, 2022 for Amendment (Bifurcation) environmental clearance to the above mentioned project.	----
2.	The Ministry of Environment, Forest and Climate Change has considered the above proposal for amendment (bifurcation) in Environmental Clearance granted by the Ministry vide letter no. J-11011/149/2007–IA II (I) dated 30 th March 2010 for the Petroleum and petrochemical complex in Multi products Special Economic Zone in District Jamnagar in Gujarat by M/s. Reliance Jamnagar Infrastructure Limited which was further transferred in the name of Reliance Industries Limited dated 18th October, 2011. List of ECs granted and its Status.	----
3.	The current proposal bifurcates the existing EC into two separate companies, one is Reliance Industries Limited (RIL) and other is Reliance Syngas Limited (RSL) which will operate gasification unit (NCLT has approved the same) and all other products of the existing EC will remain same which will be manufactured by Reliance Industries Limited (RIL) as per EC dated 03-06- 2020. The project proponent has requested for amendment (bifurcation) in the EC with the details as under; The gasification unit will now operate in the name and style of M/s Reliance Syngas Limited. NCLT has approved the same.	----
4.2	To be provided by RIL: <input type="checkbox"/> Land 272.29 Ha for RSL <input type="checkbox"/> Water 3,540 m3/hr <input type="checkbox"/> Power 320 MW RSL will operate one desalination plant of	Noted.

Sr. No.	Stipulations	Status of Compliance
	<p>18,240 m3/day capacity and the return sea water 41,760 m3/day will be discharged through the RIL discharge facilities.</p> <p>Effluent from 4 gasifiers (245 m3/hr) will be treated in dedicated ETP and 365 m3/hr from the other six gasifiers will be pretreated at RSL and routed to the ETP of SEZ refinery for treatment.</p>	
4	<p>RSL water requirement of 1,03,200 m3/day will be fulfilled by operating a desalination unit of 18,240 m3/day and 84,960 m3/day will be supplied by RIL. The requirements of electricity 320 MW and other utilities of M/s Reliance Syngas Limited, will be supplied by M/s Reliance Industries Limited. Secured landfill Facility services will be outsourced by RSL.</p>	Noted
5	<p>ETPs as described above will be utilized for Effluent treatment and will have primary, secondary and tertiary treatment facilities. Effluent from four gasifiers will be treated in the ETP within the RSL complex. Pre-treatment is provided to the balance six gasifiers and effluent from this section is send to ETP of SEZ refinery. Treated effluent is recycled for various purposes. The reject from tertiary treatment of the treated effluent is discharged.</p>	Noted.
6	<p>All HW will be handled as per HOWM Rules 2016.</p>	Noted & will be complied with.
7	<p>The petcoke gasification is a part of the refining process. Accordingly, RSL's application will be categorised at serial no. 4(a) of schedule of EIA Notification,2006 and categorized under A category and to be appraised by the Centre.</p>	---
8	<p>The proposal was considered by the Expert Appraisal Committee (I) in its 84th meeting held during 19-21 August,2008 and 93rd meeting held on 15th April 2009.The Committee sought additional information. On receipt of additional information, the proposal was placed before the Expert Appraisal Committee in its meeting held during 15-17 June 2009. The Committee recommended the proposal for environmental clearance. The</p>	----

Sr. No.	Stipulations	Status of Compliance
	<p>proposal was further referred back to the newly constituted. Expert Appraisal Committee -2(1) to re-look into the issues of power project and other petrochemicals. The Committee considered the project in its meeting held in 19-21st August, 2009. The Committee sought additional information for reconsideration. On receipt of additional information, the proposal was placed before the Expert Appraisal Committee in its meeting held in 9-10th February,2010. The Committee recommended the proposal for environmental clearance subject to stipulation of additional specific safeguards. Public hearing of the project was held on 8th January,2008.</p>	
	<p>Bifurcation of specific conditions as given in EC dated 30th March, 2010</p>	
(i)	<p>Effluent from four gasifiers will be treated in the ETP within the RSL complex. Pre-treatment is provided to the balance six gasifiers and effluent from this section is sent to ETP of SEZ refinery. All treated effluent is recycled for various purposes. The reject from tertiary treatment of the treated effluent is discharged</p>	<p>Noted & Complied with. Treated effluent is utilized for cooling tower makeup, horticulture for green belt development, fire water makeup, etc. The reject from tertiary treatment of the treated effluent and brine from desalination unit are discharged into seawater outfall in the Gulf of Kutch, through the existing multiport diffuser of RIL, at the location identified by NIO. Pl. refer to Annexure-1A for Treated Water Quality report of ETP within RSL Petcoke Gasification Complex and Annexure-1B for treated Water Quality of SEZ Refinery ETP.</p>
(ii)	<p>The Company shall provide details of the model used for the diffuser for discharge of saline water into sea and the efficacy of the existing diffuser which is based on the HYDRODYN model and also compare with CORMIX model. The depth of discharge of diffuser shall be determined as per the above model.</p>	<p>Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.</p>
(iii)	<p>The hot water effluent and outfall shall be discharged as per the prescribed standards.</p>	<p>Noted & complied with.</p>
(iv)	<p>The company shall comply with effluent</p>	<p>Noted & complied with.</p>

Sr. No.	Stipulations	Status of Compliance
	and emission standards for Petrochemical Plants of CPCB/MoEF.	
(v)	Ambient air quality data for one season other than monsoon within 10km radius of the complex particularly one station shall be established where maximum GLC is anticipated with respect to SO ₂ , NO _x , PM ₁₀ , Ozone, CO, Benzene and Benzo (a) pyrene and data submitted to MoEF/CPCB/ SPCB.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(vi)	Action plan for reduction of SO ₂ and NO _x emissions from the present level shall be submitted to the Ministry.	Maximized usage of gaseous fuel and use of syngas as fuel have reduced SO ₂ & NO _x emissions to the extent possible.
(vii)	The company shall install low NO _x burner to mitigate the NO _x emission and cyclone, venturi scrubbers, sulphur recovery unit and tail gas treatment for mitigating SO ₂ emission.	The best available technology is incorporated in FEED of the project for reduction and control measures for mitigating emissions viz; SO ₂ , PM, NO _x etc.
(viii)	The company shall install detectors for phosgene and specific steps shall be taken for phosgene management.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(ix)	The gaseous emissions (SO ₂ , PM ₁₀ , NO _x , CO and NMHC) from the various process units shall conform to the standards prescribed under Environment (Protection) Rules, 1986 or norms stipulated by the SPCB, whichever is more stringent. At no time, the emission level shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective units should not be restarted until the control measures are rectified to achieve the desired efficiency.	Noted. Gaseous emissions in the complex are designed to be within the stricter standards prescribed by the authorities. In case of any likelihood of exceedance corrective actions are laid down to avoid it.
(x)	The proponent shall upload the status of compliance of the stipulated EC conditions, including monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal office of CPCB and the SPCB. The criteria pollutant namely; Particulate matter (PM ₁₀ , SO ₂ , NO _x , VOC and HC (Ambient levels as well as stack emissions)	Noted & complied with. Compliance reports are submitted to authorities regularly. The criteria parameters and critical sectorial parameters indicated for the complex are monitored and displayed at the convenient location near the main gate of the company in the public domain.

Sr. No.	Stipulations	Status of Compliance
	or critical sectoral parameters, indicated for the project shall be monitored and displayed at the convenient location near the main gate of the company in the public domain.	The status of compliance is uploaded on the company's website in a summarized form.
(xi)	Process emissions shall be controlled by scrubbers. Flue gas emissions from the various stacks attached to the boilers, furnace/ heaters shall conform to the prescribed standards.	The best available technology is incorporated & established in FEED for the units to conform to the prescribed standards. Pl. refer Annexure -2 for stack monitoring analysis report.
(xii)	The gaseous emissions from the DG sets shall be dispersed through stack of adequate height as per CPCB/State Pollution Control Board standards. Acoustic enclosures shall be provided to mitigate the noise.	Suitable stack height as per the prescribed standards and acoustic enclosures are provided for all the DG sets.
(xiii)	The company shall use low sulphur fuel to minimize SO ₂ emission. Stacks which are contributing to more SO ₂ emissions shall be identified and SO ₂ emissions shall be reduced by changing the fuel or by increasing the height of major stacks to bring GLC within the prescribed limits.	The best available technology is incorporated & established in the Front-End Engineering Design (FEED) for the units for reduction & minimization of GLC. All stack heights are in accordance to the standards and there is no exceedance on the GLCs monitored.
(xiv)	To control the fugitive emissions, the unit shall have provision for internal floating roof tanks with flexible double seal for MS and intermediate products; mechanical seals in pumps; regular inspection of floating roof seals and proper maintenance of floating roof seals for storage tanks; preventive maintenance of valves and other equipment; regular skimming of oil from separators/equalization basin in ETP. The units shall assess and minimize the fugitive VOC emission wherever possible.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(xv)	Fugitive emissions of HC from product storage tank yards etc must be regularly monitored. Sensors for detecting HC leakage shall also be provided at strategic locations.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(xvi)	M/s RIL shall implement Leak Detection and Repair (LDAR) programme using a portable VOC detection instrument shall be done on distribution lines and tanks.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.

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(xvii)	Measures shall be undertaken for odour control and inventory of odours compounds shall be maintained.	Noted.
(xviii)	The product loading gantry shall be connected to the product sphere in closed circuit through the vapour arm connected to the tanker. Data on fugitive emissions shall be regularly monitored and records maintained.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(xix)	The company shall ensure that no halogenated organic is sent to the flares. If any of the halogenated organic are present then the respective streams may be incinerated, if there are no technically feasible or economically viable reduction/recovery options. Any stream containing organic carbon, other than halogenated shall be connected to proper flaring system, if not to a recovery device or an incinerator.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(xx)	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Details regarding type of catalyst to be used and plan for disposal of spent catalyst shall be submitted. The company shall incinerate the oil cotton rags only. The design of the incinerator and secured landfill facility shall be as- per the CPCB guidelines.	Noted & complied with. CTE & Provisional CTO are obtained in the name of RSL.
(xxi)	M/s RJIL shall undertake measures for firefighting facilities in case of emergency	Firefighting facilities are established including dedicated fire stations are operational so as to cover all the units.
(xxii)	The company shall submit a time bound action plan for brine management. Further, possibility of setting up of salt manufacturing facility for management of huge volume of brine shall be explored or tie up with the salt manufacturing units in the area for brine disposal.	Noted. This possibility has been explored. However, it is not found feasible.

Sr. No.	Stipulations	Status of Compliance
(xxiii)	The company shall prepare integrated risk assessment report considering domino effect which shall be done after freezing overall layout of the Petrochemical Complex with precise location of all individual plants as well as all offsite and battery limit storage areas of the Petrochemical Complex and after all storage capacities and tank sizes are decided.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(xxiv)	The Quantitative Risk Assessment (QRA) shall be done in comprehensive manner by taking into all consideration listed a) below but not limited to, Report to consider two mega size refineries in the same industrial area and shall deal with the risk arising out of major incident (VCE, Flash fire) in either the existing refineries or proposed petrochemical complex and its domino effect on each other. b) Report to consider precise layout of particular units, bulk storages and storage quantities determined, details of safety system, safeguard provided against domino effect	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(xxv)	All pressure vessels shall be of SIL-3 level product at par with existing refineries.	Included in design
(xxvi)	Any relief system for major hazardous releases shall have at least double or triple backup system against the possibility of human error.	Included in design
(xxvii)	Risk assessment shall include BLEVE for propane and shall be considered in the layout plan.	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.
(xxviii)	The company shall submit reports of last 2-3 years regarding external safety audit.	Complied with. Safety audits are being conducted and the audit reports submitted to concerned authorities. Pl. refer Annexure 7 for acknowledge copy of DISH inward letter for Annual Safety Audit conducted.
(xxix)	Since some of the design parameters have not been frozen at this stage of project, once the Front End Engineering Design Document (FEED) is firmed up, necessary	Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.

Sr. No.	Stipulations	Status of Compliance
	<p>details for integrated QRA study are available particularly with respect to lay out including, the bulk storages with storage quantities determined, details of safety system, safeguard provided against domino effect and other details as prescribed in the specific conditions stipulated above regarding catalyst and the mode of their disposal, steps for mitigation of SO₂ and NO_x releases details of phosgene management and model used for diffuser for discharged of saline water into the sea shall be submitted to the Ministry. The information provided shall be place before the Committee so that the Committee suggests mid-course correction, and if considered necessary additional environmental safeguards are stipulated for compliance by M/s RIL.</p>	
(xxx)	<p>M/s RIL shall undertake rainwater harvesting measures, to recharge the ground water and also to minimize the water drawl from the weir.</p>	<p>Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.</p>
(xxxii)	<p>Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with local DFO.</p>	<p>Noted.</p>
(xxxiii)	<p>Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employees shall be maintained separately.</p>	<p>Complied with. Occupational Health Surveillance of the employees and workers is conducted regularly, and the records are maintained as per the Factories Act. The periodical Medical Surveillance of all employees is carried out annually. For last Six months ending 30th Sept '2023, 100% of scheduled employees PME have been conducted.</p>
(xxxiiii)	<p>Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of a temporary structure to be removed after the completion of the project. All the</p>	<p>Not applicable to RSL as per EC dtd 06.07.2022 granted by the MoEF&CC.</p>

Sr. No.	Stipulations	Status of Compliance
	construction wastes shall be managed so that there is no impact on the surrounding environment.	
(xxxiv)	The Company shall comply with all the conditions stipulated vide ministry's clearance letter no. J- 111011/232/2005-IA.II (I) dated 3rd August,2005 for expansion and modernization of petrochemical refinery complex.	Being complied with.
B	GENERAL CONDITION:	
i.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board and the State Government.	Noted.
ii.	No further expansion or modernization in the plant should be carried out without prior approval of the ministry of Environment and Forests.	Noted.
iii.	At no time, the emission should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	Complied with. The emissions in the complex are designed to be within the stricter standards prescribed by the authorities. In case of any likelihood of exceedance corrective actions are laid down to avoid it.
iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA Rules.	Complied with. All preventive engineering measures for control of noise have been incorporated in the design such that the ambient noise levels conform to the standards prescribed. Pl. refer Annexure 3 for Complex Peripheral Noise Monitoring Report.
v.	The project authorities must strictly comply with the provisions made in Manufacture, Storage and import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from chief controller of explosives must be obtained before commission of the project.	Complied.
vi.	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the ministry of Environment and Forest as well as the	The funds (recurring and non-recurring) allocated are used only for the implementation of the environmental conditions and are not diverted for any other purpose The

Sr. No.	Stipulations	Status of Compliance
	State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	total recurring environmental expense during the last six months ending 30 th Sept '2023 for Petcoke Gasification complex is around Rs. 2,64,59,578/-
vii.	The stipulated conditions will be monitored by the Regional of this Ministry at Bhopal/Central Pollution Control Board / State Pollution Control Board. A six-monthly compliance report and the monitored data should be submitted to them regularly.	Noted & will be complied with.
viii	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copy as well as by e-mail) to the respective Regional office of MoEF, the respective zonal office of CPCB and the State Pollution Control Board.	Noted & will be complied with.
ix.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any were received while processing the proposal.	Complied with. Pl. refer Annexure 5 for copies of EC grant intimation letters to local authorities.
x.	The Environmental statement for each financial years ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Noted & will be complied with.
xi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of Ministry at http://envfor.nic.in This shall be advertised	Complied with. Pl. refer Annexure 6 for Copy of Advertisement in Local News Papers

Sr. No.	Stipulations	Status of Compliance
	within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to concerned the Regional Office of the Ministry.	
xii.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closures and final approval of the project by the concerned authorities and the date of start of the project.	Complied with
5.	During deliberations, PP informed that Memorandum and Articles of Association between Reliance Syngas Limited and Reliance Industries Limited has been submitted and the CIN number for Reliance Syngas Limited is U24304GJ2021PLC126977.	Complied with
6.	<p>The proposal was considered by the EAC in its 05th meeting held on 10th May, 2022 in the Ministry, wherein the project proponent presented the amendment (bifurcation) case. The Expert Appraisal Committee, after detailed deliberations recommended the amendments (bifurcation) in EC, as proposed by the project proponent, with all other terms and conditions remain unchanged in EC dated 30th March, 2010. Specific conditions to be included in proposed amendment is as follows:</p> <p>(i) Physical demarcation of both the units shall be clearly reflected.</p> <p>(ii) Greenbelt of 33% shall be developed in the new unit area of RSL and RIL shall maintain the same percentage in existing premises.</p>	Noted and Complied with.
7.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords amendment (bifurcation) of existing environmental clearance to the project for Petroleum and petrochemical	Complied with. CTE & CTO are obtained from GPCB in the name of RSL.

Sr. No.	Stipulations	Status of Compliance
	complex in Multi products Special Economic Zone in District Jamnagar in Gujarat by M/s. Reliance Industries Limited - under the provisions of the EIA Notification, 2006, and the amendments subject to satisfactory compliance to all the stipulated specific and general conditions as mentioned above. It is also requested to obtain 'Consent to Establish" and 'Consent to Operate' from the State Pollution Control Board in the name of M/s Reliance Syngas Limited.	
8.	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
9.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
10.	Any appeal against this environmental 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	---
11.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	---
12.	This issues with the approval of the competent authority.	---

ANNEXURE II MONITORING DATA

Six Monthly Report
(01st April '2023 to 30th September '2023)

Reliance Syngas Ltd. (RSL)
Jamnagar

Reliance Syngas Ltd. (RSL), Jamnagar

List of Six-Monthly Monitoring Reports attached as Annexures

Annexure No.	Description
1A & 1B	Treated Wastewater Quality Results
2	Stack Monitoring Report -PCG Complex
3	Plant Peripheral Noise Monitoring Report
4	Organogram of Environment dept.
5	Copy of grant of EC intimation letter to Panchayat, Zilla Parisad/ Municipal Corporation, Urban local Body and the local NGO
6	Copy of Advertisement in Local News Papers
7	Acknowledgement copy of Third-Party Legal Safety Report -2022

Reliance Syngas Ltd. Jamnagar.**Treated Water Quality – Petcoke Gasification Complex - ETP
(1st April '2023 to 30th Sept '2023)**

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	pH	--	7.4	7.7	7.5
2	Suspended Solids	mg/l	10	14	11.7
3	Biochemical Oxygen Demand	mg/l	5.0	8.0	6.3
4	Chemical Oxygen Demand	mg/l	38.0	46.0	40.7
5	Oil & Grease	mg/l	1.2	1.6	1.4
6	Phenols (as C ₆ H ₅ OH)	mg/l	0.1	0.1	0.1
7	Sulphide (as S)	mg/l	N.D.	N.D.	N.D.
8	Cyanide (as CN)	mg/l	N.D.	N.D.	N.D.
9	Ammonical Nitrogen	mg/l	9.2	9.6	9.4
10	TKN	mg/l	10.8	11.4	11.1
11	Phosphorous (as P)	mg/l	1.0	1.2	1.1
12	Chromium (hexavalent)	mg/l	N.D.	N.D.	N.D.
13	Chromium (Total)	mg/l	N.D.	N.D.	N.D.
14	Lead as Pb	mg/l	N.D.	N.D.	N.D.
15	Mercury as Hg	mg/l	N.D.	N.D.	N.D.
16	Zinc as Zn	mg/l	N.D.	N.D.	N.D.
17	Copper as Cu	mg/l	N.D.	N.D.	N.D.
18	Nickel as Ni	mg/l	N.D.	N.D.	N.D.
19	Vanadium as V	mg/l	N.D.	N.D.	N.D.
20	Benzene	mg/l	N.D.	N.D.	N.D.
21	Benzo (a) - pyrene	mg/l	N.D.	N.D.	N.D.

Remarks : 1) Minimum Detectable Limit : Sulphides=0.1mg/l, Cyanide=0.01mg/l,
Metals (Cr,Pb,Hg,Zn,Ni,Cu,V)=0.01mg/l, Benzene=0.01mg/l,
Benzo(a)Pyrene=0.01mg/l,
2) N.D. : Not Detectable

ANNEXURE – 1B

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ, Jamnagar)

Treated Water Quality - ETP Outlet

(1st April '2023 to 30th Sept '2023)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	pH	--	7.4	7.7	7.6
2	Total Suspended Solids	mg/l	10.0	14.0	12.3
3	Biochemical Oxygen Demand	mg/l	5.0	6.0	5.5
4	Chemical Oxygen Demand	mg/l	38.0	46.0	41.7
5	Oil & Grease	mg/l	1.2	1.6	1.4
6	Phenols (as C ₆ H ₅ OH)	mg/l	0.10	0.12	0.11
7	Sulphide (as S)	mg/l	N.D.	N.D.	N.D.
8	Cyanide (as CN)	mg/l	N.D.	N.D.	N.D.
9	Ammonical Nitrogen	mg/l	9.4	9.6	9.5
10	TKN	mg/l	10.8	11.4	11.0
11	Phosphorous (as P)	mg/l	1.0	1.2	1.1
12	Chromium (hexavalent)	mg/l	N.D.	N.D.	N.D.
13	Chromium(Total)	mg/l	N.D.	N.D.	N.D.
14	Lead as Pb	mg/l	N.D.	N.D.	N.D.
15	Mercury as Hg	mg/l	N.D.	N.D.	N.D.
16	Zinc as Zn	mg/l	N.D.	N.D.	N.D.
17	Copper as Cu	mg/l	N.D.	N.D.	N.D.
18	Nickel as Ni	mg/l	N.D.	N.D.	N.D.
19	Vanadium as V	mg/l	N.D.	N.D.	N.D.
20	Benzene	mg/l	N.D.	N.D.	N.D.
21	Benzo (a) - pyrene	mg/l	N.D.	N.D.	N.D.

Remarks : 1) Minimum Detectable Limit : Sulphides=0.1mg/l, Cyanide=0.01mg/l,
Metals(Cr,Pb,Hg,Zn,Ni,Cu,V)=0.01mg/l, Benzene=0.01mg/l,
Benzo(a)Pyrene=0.01mg/l,
2) N.D. : Not Detectable

ANNEXURE – 2

Reliance Syngas Ltd. Jamnagar.
Stack Monitoring Report – Petcoke Gasification Complex
(1st April '2023 to 30th Sept '2023)

Sr. No.	Stack Attached to	Stack No.	SO ₂ (mg/Nm ³)			NO _X (mg/Nm ³)			PM (mg/Nm ³)		
			MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG
Pet Coke Gasification Complex											
I Stacks Involving Fuel Burning											
A. Steam Superheater											
1	SP HEATER-01	MB-GUG723-F001	9.8	12.0	10.6	33	36	35	1.2	1.4	1.3
2	SP HEATER-02	MB-GUG723-F002	9.8	11.6	10.7	33	38	36	1.0	1.4	1.2
3	SP HEATER-03	MB-HUH723-F001	10.2	13.4	12.2	34	37	36	1.1	1.4	1.3
4	SP HEATER-04	MB-HUH723-F002	10.2	12.5	11.4	32	36	34	1.0	1.5	1.2
5	SP HEATER-05	MB-HUH723-F003	11.6	12.0	11.8	34	38	36	1.1	1.1	1.1
II Stacks Involving Process Emission											
A. Sulphur Complex											
1	SRU Inci-01	MB-GOG360-SO1	245	264	255	52	58	54	NA	NA	NA
2	SRU Inci02	MB-GOG361-SO1	248	264	256	52	56	54	NA	NA	NA
3	SRU Inci-03	MB-HOH360-SO1	249	264	259	48	56	53	NA	NA	NA
4	SRU Inci-04	MB-HOH361-SO1	247	262	256	52	58	55	NA	NA	NA
III Stacks Involving Material Handling											
A. Sulfur Formulation Unit											
1	SFU-1	MA-GOG370-F001A	NA	NA	NA	NA	NA	NA	9.2	10.5	9.8
2	SFU-2	MA-GOG370-F001B	NA	NA	NA	NA	NA	NA	8.4	10.6	9.2
3	SFU-3	MA-GOG370-F001C	NA	NA	NA	NA	NA	NA	8.6	11.2	9.7
4	SFU-4	MA-GOG370-F001D	NA	NA	NA	NA	NA	NA	8.6	12.5	10.2
5	SFU-5	MA-HOH370-F001A	NA	NA	NA	NA	NA	NA	8.2	10.4	9.6
6	SFU-6	MA-HOH370-F001B	NA	NA	NA	NA	NA	NA	9.0	11.2	10.0
7	SFU-7	MA-HOH370-F001C	NA	NA	NA	NA	NA	NA	8.6	10.5	9.9
8	SFU-8	MA-HOH370-F001D	NA	NA	NA	NA	NA	NA	8.4	11.0	9.6

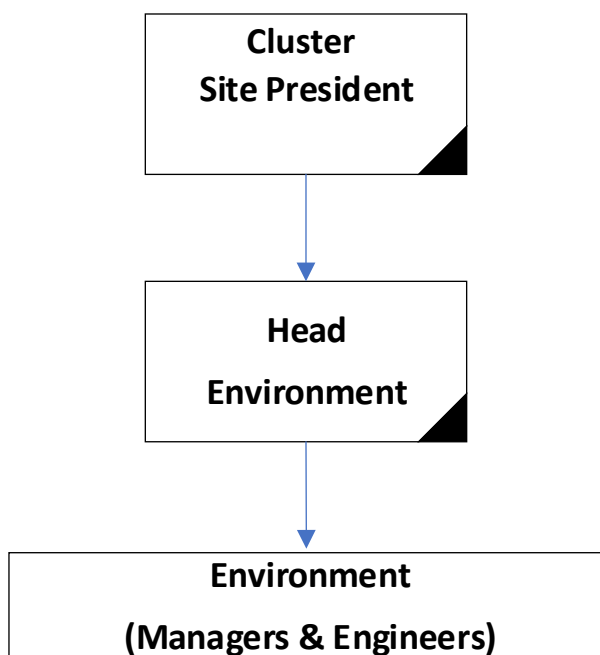
Note: 1. ND: Not Detectable ; 2. NA: Not Applicable.

Reliance Syngas Ltd. Jamnagar.
NOISE QUALITY MONITORING - Petcoke Gasification Complex
(1st April '2023 to 30th Sept '2023)

Sr. No.	Area /Location	Noise Level (dBA) Day-time		Noise Level (dBA) Night-time	
		Minimum Value	Maximum Value	Minimum Value	Maximum Value
1	Nr. SEZ Coke Dome	50	53	44	46
2	PCG ETP	45	48	39	43
3	Nr. SWP 18	56	58	47	51
4	Nr. GCC	54	55	44	46
5	Nr. SWP 17	51	52	46	49
6	Nr. MRS 4	55	58	45	49
7	Nr. Z ASU	50	55	46	48

Reliance Syngas Ltd. Jamnagar.

Organogram of Environment Department



Reliance Syngas Ltd. Jamnagar.

Copy of EC Granted intimation letter to Local Authorities

RELIANCE SYNGAS LIMITED
CIN: U24304GJ2021PLC126977

July 13, 2022

To,
District Development Officer,
District Panchayat Bhawan,
Jamnagar

Sub : Environmental Clearance

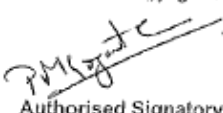
Ref : Environmental Clearance granted by MoEF&CC, New Delhi to M/s Reliance Syngas Limited vide letter no. J-11011/149/2007-IA II (I) dated 6th July 2022

Dear Sir,

We have been accorded Environmental Clearance by the Ministry of Environment, Forest & Climate Change, New Delhi for manufacturing of Syngas at Jamnagar, Gujarat (Copy enclosed). This clearance has been granted as an amendment to earlier Environmental Clearance to Reliance Industries Limited.

Thanking you,

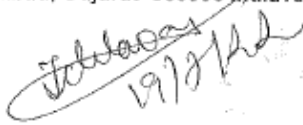
Yours Truly,
For Reliance Syngas Limited


Authorised Signatory

Encl: as above

Address: Village Padaus Taluka Lalpur, Dist. Jamnagar-361280 (Gujarat)
Postal Address: At Post Reliance Greens; Village Motikhavadi - 361142, Dist. Jamnagar (Gujarat).
Phones+91-0288-3510000

Regd. Office: Office-101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi,
Ahmedabad, Gujarat- 380006 India Tel: +91-079-3503 1200.



RELIANCE SYNGAS LIMITED

CIN: U24304GJ2021PLC126977

July 13, 2022

To,
Talati-Kam-Mantri, Padana,
Panchayat Office,
Padana.

Sub : Environmental Clearance


Ref : Environmental Clearance granted by MoEF&CC, New Delhi to M/s Reliance Syngas Limited vide letter no. J-11011/149/2007-IA II (I) dated 6th July 2022

Dear Sir,

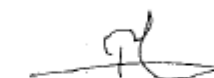
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Thanking you,

Yours Truly,
For Reliance Syngas Limited


Authorised Signatory

Encl: as above


ગણેશ શાહ
વિજ્ઞાન મંત્રી કચેરી

Address: Village Padana Taluka Lulpur, Dist. Jamnagar-361280 (Gujarat)
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Ahmedabad, Gujarat- 380006 India Tel: +91-079-3503 1200.

RELIANCE SYNGAS LIMITED
CIN: U24304GJ2021PLC126977

July 13, 2022

To,
Talati-Kam-Mantri, Kanalus,
Panchayat Office,
Kanalus.

Sub : Environmental Clearance


Ref : Environmental Clearance granted by MoEF&CC, New Delhi to M/s Reliance Syngas Limited vide letter no. J-11011/149/2007-IA II (I) dated 6th July 2022

Dear Sir,


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Thanking you,

Yours Truly,
For Reliance Syngas Limited


Authorized Signatory

Encl: as above


આચાર્ય શ્રી મુખર્જી
સહ-વિજ્ઞાપક તાલુકા કાનલુસ


Address: Village Pudana Taluqa Lalpur, Dist. Jamnagar-361280 (Gujarat)
Postal Address: At Post Reliance Greens; Village Motikhavdi - 361 142. Dist. Jamnagar (Gujarat).
Phones+91-0298-3510000

Regd. Office: Office-101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi,
Ahmedabad, Gujarat- 380006 IndiaTel: +91-079-3503 1200.

Reliance Syngas Ltd. Jamnagar.

Copy of Advertisement in Local News Papers

Publication : Times of India
Edition : Ahmedabad
Date : 13-07-2022
Page : 05



Reliance
Industries Limited
આવકોશીકા


PUBLIC NOTICE

It is hereby informed that the Ministry of Environment, Forests and Climate Change, Government of India, New Delhi vide Letter No. J-11011/149/2007-IA-II (f) dated 06.07.2022 has accorded Environmental Clearance to M/s Reliance Syngas Limited for manufacturing Syngas at Jamnagar, Gujarat. The clearance has been granted as an amendment to earlier Environmental Clearance to Reliance Industries Limited.

Copies of the clearance letter are available at the offices of State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests and Climate Change at <http://envfor.nic.in>

Reliance Syngas Limited

Publication : Sandesh
Edition : Rajkot
Date : 13-07-2022
Page : 09



Reliance
Industries Limited
આવકોશીકા

જાહેર સૂચના

આથી જાણ કરવામાં આવે છે કે પર્યાવરણ, વન અને જલવાયુ પરિવર્તન મંત્રાલય, ભારત સરકાર, નવી દિલ્હીએ તેઓના પત્ર નં. J-11011/149/2007-IA-II (f) તા. ૬.૭.૨૦૨૨ તારા રિલાયન્સ સિંગેસ લિમિટેડ કંપનીને જામનગર, ગુજરાત ખાતે સિંગેસના ઉત્પાદન માટે પર્યાવરણીય મંજૂરી આપવામાં આવેલ છે.

રિલાયન્સ ઇન્ડસ્ટ્રીઝ લિમિટેડને અગાઉની પર્યાવરણીય મંજૂરીમાં સુધારા તરીકે મંજૂરી આપવામાં આવેલ છે.

મંજૂરી પત્રની નકલો રાજ્ય પ્રદૂષણ નિયંત્રણ બોર્ડની ઓફિસો ઉપર ઉપલબ્ધ છે અને તે પર્યાવરણ, વન અને જલવાયુ પરિવર્તન મંત્રાલયની વેબસાઇટ <http://envfor.nic.in> પર પણ જોઈ શકાય છે.

રિલાયન્સ સિંગેસ લિમિટેડ

Reliance Syngas Ltd. Jamnagar.
Acknowledgement copy of
Third Party Legal Safety Report -2022

CC

RELIANCE SYNGAS LIMITED
CIN: U24304GJ2021PLC126977

Ref: - Dy DISH/RSL-SEZ/14-2023

Date: 12th April 2023

To,
Deputy Director - Industrial Safety & Health
3rd Floor, Dr. Hedgewar Commercial Complex,
Near MP Shah Commerce College,
Sat Rasta Circle,
JAMNAGAR


Sub: Submission of Third-Party Legal Audit Report 2022- RSL SEZ

Respected Sir,


We are submitting herewith third party legal audit report for the year 2022 for Reliance Syngas Limited. -SEZ.

Request to kindly acknowledge the receipt of the same.

Thanking you,

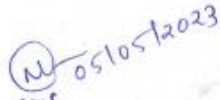

Yours faithfully,

For Reliance Syngas Limited. -SEZ


Prerak Shah

Vice President

Encl: As above


કલાર્ક
ડેપુટી ડાયરેક્ટર
ઇન્ડસ્ટ્રીયલ સેફ્ટી એન્ડ હેલ્થની ક્ષેત્રી
જામનગર

Address: Village Padana/Kanalus, Taluka Lalpur, Dist. Jamnagar-361280 (Gujarat)
Phones+91-0288-3510000

Regd. Office: Office-101, Saffron, Nr. Centre Point, Panchwati 5 Rasta,
Ambawadi, Ahmedabad, Gujarat- 380006 IndiaTel: +91-079-3503 1200.

07/0

RELIANCE SYNGAS LIMITED

CIN: U24304GJ2021PLC126977

Ref: - Dy DISH/RSL-DTA/15-2023

Date: 12th April 2023

To,
Deputy Director - Industrial Safety & Health
3rd Floor, Dr. Hedgewar Commercial Complex,
Near MP Shah Commerce College,
Sat Rasta Circle,
JAMNAGAR

Sub: Submission of Third-Party Legal Audit Report 2022- RSL DTA

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Request to kindly acknowledge the receipt of the same.

Thanking you,

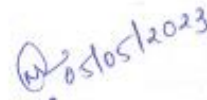
Yours faithfully,

For Reliance Syngas Limited. -DTA


Prerak Shah

Vice President

Encl: As above


કચ્છ
જિલ્લા કલેક્ટર
ઉપરજીવણ ઘોડેરી એન્ડ ટેલેની કચેરી
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