

CIN: L17110MH1973PLC019786

Dated: 21st November '2024

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 RIL Refinery cum Petrochemical Complexes, Jamnagar, for the period ending 30th September '2024.

Dear Sir,

Please find herewith the Six-monthly EC / CRZ Clearance compliance status reports of M/s Reliance Industries Ltd, (Refinery cum Petrochemical Complexes), Jamnagar for the period 01st April '2024 to 30th September '2024.

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

Thanking you,

Yours truly,

For Reliance Industries Limited

Authorized Signatory

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

Acknowledgement

Proposal Name	18 MMTPA Refinery Complex at Motikhavdi/Sikka, Jamnagar
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	IAMNACAD

District JAMNAGAR

Proposal No.	J-11011/25/94-IA-II (I)
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-11011/25/94-IA-II (I)

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	2421	2421
Total	2421	2421

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Crude Oil	Others:MMTPA	N/A	18	18	

Conditions

Specific Conditions

	Sr.No.	Condition Type	Condition Details
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	Submission: Being Complied ummary monitoring report, Annexure	II, is based on reports submitted to GPCB on a monthly	Date: 21/11/2024
2	GREENBELT	B. CRUDE OIL TERMINAL (COT): A green belt o width (at least 50 m) and density should be developed crude oil terminal site.	
	Submission: Complied en belt of adequate width has been de	veloped and is maintained all around the tank farm.	Date: 21/11/2024
3	MISCELLANEOUS	Any expansion of the Plant or storage facilities eithe existing / proposed products mix or new products or classified pipeline route / location of SPM site etc. can be taken the prior approval of this Ministry.	hange in the
	Submission: Complied blied with.		Date: 21/11/2024
4	AIR QUALITY MONITORING AND PRESERVATION	The total emissions of SO2 from the refinery comple exceed 24 TPD after the refinery has been fully established.	
Regul compl emiss	lex which is below the limit prescribed	arried out for measuring SO2 emission from the refinery d. Please refer Annexure I-A showing average daily emission during 1st half of FY2025 varied between 21.55	Date: 21/11/2024
Regul complemiss and 22	ar monitoring and measurement are callex which is below the limit prescribed ion quantity of SO2. The Daily SO2 e	d. Please refer Annexure I-A showing average daily	21/11/2024 ould conform from time to the stipulated rol system down
Regul complemiss and 22 5 PPs The li emiss for en	ar monitoring and measurement are callex which is below the limit prescribed ion quantity of SO2. The Daily SO2 e 2.73 MT/day. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied mits for gaseous emissions are prescrition parameters are within the standard	d. Please refer Annexure I-A showing average daily emission during 1st half of FY2025 varied between 21.55 The gaseous emission from various process units should the standards prescribed by the concerned authorities, time. At no time the emission level should go beyond standards. In the event of failure of any pollution contradopted by the unit the respective unit should be shut a immediately and should not be restarted until the contrador.	21/11/2024 Dould conform from time to the stipulated rol system down rol measures Date:
Regul complemiss and 22 5 PPs The li emiss for en as An	ar monitoring and measurement are callex which is below the limit prescribed ion quantity of SO2. The Daily SO2 e 2.73 MT/day. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied mits for gaseous emissions are prescrition parameters are within the standard suring compliance to emission limits.	d. Please refer Annexure I-A showing average daily emission during 1st half of FY2025 varied between 21.55 The gaseous emission from various process units shot the standards prescribed by the concerned authorities, time. At no time the emission level should go beyond standards. In the event of failure of any pollution contradopted by the unit the respective unit should be shut a immediately and should not be restarted until the contrare rectified to achieve the desired efficiency.	21/11/2024 ould conform from time to the stipulated rol system down rol measures Date: 21/11/2024
Regul complemiss and 22 5 PPs The li emiss for en as An 6	ar monitoring and measurement are callex which is below the limit prescribed ion quantity of SO2. The Daily SO2 e 2.73 MT/day. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied mits for gaseous emissions are prescrition parameters are within the standard suring compliance to emission limits nexure 2-A AIR QUALITY MONITORING AND PRESERVATION Submission: Complied	d. Please refer Annexure I-A showing average daily emission during 1st half of FY2025 varied between 21.55 The gaseous emission from various process units shot the standards prescribed by the concerned authorities, time. At no time the emission level should go beyond standards. In the event of failure of any pollution contradopted by the unit the respective unit should be shut a immediately and should not be restarted until the contrare rectified to achieve the desired efficiency. The disprescribed at all times. The recommended procedure is followed. Please refer the monitoring reports annexed Sulphur recovery unit having efficiency of not less the	21/11/2024 ould conform from time to the stipulated rol system down rol measures Date: 21/11/2024

	Submission: Complied Ox burners are provided for reduc	tion of NOx.	Date: 21/11/2024
8	AIR QUALITY MONITORING AND PRESERVATION	At least six ambient air quality monitoring stations sin the refinery area in the down wind direction as well maximum ground level concentrations of SO2, NOx, are anticipated. The monitoring network should be determined the modelling exercise to represent the short term GLO van with adequate facilities to monitor ambient air quarefinery premises should also be planned.	as where HC and SPM cided based or Cs. A mobile
Stipula results		we been setup. Please refer Annexure 5-A for AAQMs has been established and operated at locations outside the	Date: 21/11/2024
9	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions of HC from storage tanks, crude should be minimized by adopting necessary measure seal floating roof tanks. The emission should be contreensure that the NMHC levels outside the refinery presence at 160 ug / M3.	such as double olled so as to
All the	Submission: Complied storage tanks with emission control ry standards Notified on dtd 18.03.	ol measures are provided. They are compliant to the .2008. Complied.	Date: 21/11/2024
10	AIR QUALITY MONITORING AND PRESERVATION	Adequate facilities for monitoring the fugitive emiss provided and data recorded should be submitted every to CIF / SPCB and every six months to the Ministry o and Forests.	three months
Proced	Submission: Complied lure and facilities for Fugitive emisorded and submitted to GPCB.	ssion monitoring is established and the results of monitoring	Date: 21/11/2024
11	AIR QUALITY MONITORING AND PRESERVATION	The stacks should be of appropriate design and heigh be attached to pollution control systems wherever nector of Stacks attached to FCCU / HCU, CPP etc. should be consultation with the State Government (SPCB).	essary. Height
		ontrol systems and are of appropriate height as per the	Date: 21/11/2024
12	MISCELLANEOUS	Designing of LPG spheres including the exclusion z finalized in consultation and approval of the Chief Ins Explosives, Nagpur and the State Pollution Control Be impact of fire and explosion should not cross the plant	pector of oard. The
Design	e approved by the Chief Inspector of	acluding the exclusion zone of storage tanks and spheres of Explosives, Nagpur. The impact of fire and explosion nent carried out and does not cross the plant boundaries.	Date: 21/11/2024
13	WATER QUALITY MONITORING AND PRESERVATION	Ground water should not be tapped for industrial as domestic uses including the township. Alternate source finalized keeping in view its impact on other competers	e has to be

Ground to mee		ry complex. Narmada water is received through	Date: 21/11/2024
14	WATER QUALITY MONITORING AND PRESERVATION	Liquid effluents should be treated to conform to the stipulated by State Pollution Control Board / Ministry Environment and Forests under EPA, 1986. Recyclin treated effluent to the maximum extent possible shou	y of g / reuse of the
State-c faciliti		is provided with Primary, Secondary and Tertiary of the treated water. The treated water meets all the	Date: 21/11/2024
15	WATER QUALITY MONITORING AND PRESERVATION	Adequate number of influent and effluent quality me stations have to be planned with adequate facilities sparameters like phenols, sulphides, oil and grease, su BOD, COD, pH and flow. The effluent discharge poidecided in consultation with NIO and the State Pollum Board.	pecially for spended solids, nt should be
All the up. The plant. l consul	e effluent parameters are monitored a Please refer Annexure 7-A. Discharge	monitored in the central laboratory (NABL approved) set t source of generation and at outlet of effluent treatment to of effluent from the complex is at a point decided in esigned diffuser. The consent from GPCB has been	Date: 21/11/2024
16	WASTE MANAGEMENT	System to recover oil from the oily sludge and incirresidues should be provided.	neration of the
The Oi heavy		processed in Delayed Coker unit. The sludge from the intenance is sent to common incineration facility and or	Date: 21/11/2024
17	Statutory compliance	Hazardous substances and solid wastes handling, st disposal should be as per the Solid Wastes (Managen Handling) Rules, 1989 of EPA, 1986.	
	Submission: Complied risation for Storage, Handling and dis	posal of HW is obtained from GPCB.	Date: 21/11/2024
18	Statutory compliance	A solid waste management plan should be submitted for approval within a period of six months. In case of should be approved by the State Government.	
	Submission: Complied lid waste management plan has been	submitted to the Ministry as per the requirement.	Date: 21/11/2024
19	MISCELLANEOUS	Cutting of trees from the project sites should be kep while developing the site and planning the infrastruct	
	Submission: Complied The project is constructed on barren	land where green belt has been established.	Date: 21/11/2024
20	MISCELLANEOUS	The industrial township should not be located in the	e down wind

		direction with respect to the refinery.	
PPs S Compli	submission: Complied ed.		Date: 21/11/2024
21	MISCELLANEOUS	Adequate sanitation facilities and cooking fuel should to the labourers to avoid tree cutting and nuisance in the	
	ubmission: Complied ject is already completed.		Date: 21/11/2024
22	MISCELLANEOUS	Affected persons due to acquisition of agricultural la should be properly compensated as per the State Government.	
	ubmission: Complied ject is already completed.		Date: 21/11/2024
23	MISCELLANEOUS	The labourers or contractor should leave the place after of the work at site to avoid creation of slum in the adjoint the projects.	
	ubmission: Complied ject is already completed.		Date: 21/11/2024
24	Noise Monitoring & Prevention	The overall noise levels in and around the plant area well within the standards (85 DBA) by providing acou silencers etc. around the noise generating sources.	
Approp includir	ng provision of acoustic hoods, silence	e provided to identified sources of noise generation rs, enclosures etc. wherever necessary The overall ept well within the standards. Please refer Annexure 8-	Date: 21/11/2024
25	GREENBELT	A green belt plan with adequate width and density al Refinery by selecting the native plant species should be consultation with the local DFO. A norm of about 1500 per ha. may be adopted for raising the Green Belt.	e developed i
About 3 planted	Submission: Complied 8,168 acres of the total area has been coconforming to the recommended densiried out.	overed by tree plantation. Over 400 species have been ity. Additionally, 875 acres of mangrove plantation has	Date: 21/11/2024
26	MISCELLANEOUS	A long term study to assess the impacts due to emissipollutants from the refinery on the mangroves should be and report submitted after the refinery becomes operate study should be conducted by a reputed institution or by the Department of Environment, Government of Gu	e undertaken lonal. The lody approved
	submission: Complied c monitoring by NIO of entire marine e	ecology and mangroves is carried out.	Date: 21/11/2024
27	Risk Mitigation and Disaster Management	Necessary approvals from Chief Explosives Director of Factories, Fire Safety Inspector, etc. should be obtain of the approval letters be made available to this Minist off-site Emergency Preparedness Plans under Rule 13	ned and copie ry. On-site an

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Compre nodal a been de	gencies. These are updated at regul	redness Plans have been developed and approved by the lar intervals. Off-site Emergency Preparedness Plans have il Spill Contingency Plans and Marine Disaster by Indian Coast Guard.	Date: 21/11/2024
28	MISCELLANEOUS	The project authority should set up laboratory facility collection and analysis of samples under the supervision technical personnel, who will directly report to the Chi	on of compete
		environmental parameters is outsourced to MoEF approved	Date: 21/11/2024
29	MISCELLANEOUS	An Environmental Management Cell should be estable suitably qualified people to carry out various functions set up under the control of a senior executive who will to the Head of the organization.	and should b
A full-f is assist	ed by suitably qualified engineers	by Vice President who reports to the Chief Executive and is set-up. The environment cell is responsible for all the complex. Refer Departmental Organogram Annexure	Date: 21/11/2024
30	Human Health Environment	Medical surveillance of workers should be done regulated the possibility of contracting occupational diseases and maintained.	
Occupa and rec		out regular medial surveillance of all employees annually ax Months ending September 24, 100 percent PME dical examination.	Date: 21/11/2024
31	Statutory compliance	The project authorities should ensure their activities recent Supreme Court Order dated 12/12/94 with respectation No. 664/93 and 551/94 filed by the India Court Legal Action Vs. Union of India. Provisions of CRZ stronglied with in respect of installations to be provided of HTL.	ect to the Writ ncil for Enviro hould be
	Submission: Complied and complied.		Date: 21/11/2024
32	MISCELLANEOUS	The funds earmarked for the environmental protection should not be diverted for other purposes and year wis should be reported to this Ministry.	
	Submission: Complied al expenditure for the environment	al protection measures are provided in Annexure 12.	Date: 21/11/2024
33	Marine/Coastal	A. SPM and Sub-Sea Pipeline: The tank farms shoul in such a way that the residual flow including floor was percolate the marine areas including the nearby salt pa	shings do not

Approp		considered and implemented so that the marine areas ected by the tank farm operations. Complied.	Date: 21/11/2024
34	Marine/Coastal	A. SPM and Sub-Sea Pipeline: Necessary approvals wild Life Warden, Government of Gujarat should be to laying of SBM / COT / Sub-Marine / On-shore pipel necessary details in this regard should be submitted to	btained prior
PPs S	Submission: Complied ied.		Date: 21/11/2024
35	Marine/Coastal	A. SPM and Sub-Sea Pipeline: The flexible hoses she periodically tested and in case of deterioration of cond should be replaced. Safety breakaway couplings should in the system.	tion, hoses
The fle hoses a		e carcass type with safety breakaway couplings. These igns of deterioration or damage to the hoses is noticed, the hoses.	Date: 21/11/2024
36	Marine/Coastal	A. SPM and Sub-Sea Pipeline: The marine environm regularly monitored for the water quality (temperature, hydrocarbons, phenols, sulphides, total organic carbon quality (trace elements, petroleum hydrocarbons, TOC size) and biological parameters (primary productivity, quality and growth, bio-mass, phytoplankton and zoop	petroleum); sediment and sediment benthos, fish
A mari and bic both up	ological parameters in the marine eastream and downstream of the dif	d by NIO regularly. For monitoring all physical, chemical environment. Regular analysis is carried out of the seawater ffuser, for monitoring parameters temperature, petroleum organic carbon, salinity etc Please refer Annexure 9.	Date: 21/11/2024
37	Marine/Coastal	A. SPM and Sub-Sea Pipeline: A Disaster Manageme be prepared to take care of any oil leakage in the Gulf with the Coast Guards and the Marine Park Authorities contingency plan should be drawn and adequate facilit for combating the oil spills.	n consultations. Oil Spill
	Submission: Complied	Spill Contingency Plan are prepared. Indian Coast Guard has	Date:
The Di	ed the Oil Spill Contingency Plan	. Marine National Park authorities are also a signatory to the dling Agencies of the Gulf of Kutch region.	21/11/2024
The Di	ed the Oil Spill Contingency Plan	. Marine National Park authorities are also a signatory to the	ts should also

partici	pates by involvement in its execution	ion.	
39	Marine/Coastal	A. SPM and Sub-Sea Pipeline: No discharge of crud should be done in the Gulf. In case washing is done, a ballasting facilities with proper treatment should be pr	dequate
No dis	Submission: Complied charge of crude oil washings is per experitions.	rmitted at the marine facilities, as a procedure set up for	Date: 21/11/2024
40	Marine/Coastal A. SPM and Sub-Sea Pipeline: Necessary approval of forest land should also be obtained from the concern		
PPs Compl	Submission: Complied lied.		Date: 21/11/2024
41	Marine/Coastal	A. SPM and Sub-Sea Pipeline: No dredging in the se undertaken except where unavoidable during construct providing full details and obtaining the approval of Ch. Warden, Gujarat.	tion phase aft
PPs Compl	Submission: Complied lied.		Date: 21/11/2024
42	B. CRUDE OIL TERMINAL (COT): The location of COT sho be decided in consultation with Government of Gujarat (National Marine/Coastal Marine Park), NIO, ZSI (Madras Office) and SPCB. Submerged filling in all storage facilities should be provided to minimize fug emissions.		nt (National ubmerged
PPs Compl	Submission: Complied lied.		Date: 21/11/202
43	B. CRUDE OIL TERMINAL (COT): Hydrocarbon leaks show detected at regular intervals including the pipelines, at the joints walves, blinds, caps, plugs and pressure relief devices using port hydrocarbon monitor and corrective measures should be taken immediately to stop fugitive emissions.		the joints, using portabl
LDAR notific		are followed regularly in accordance with MoEF ve actions undertaken immediately. Please refer Annexure	Date: 21/11/2024
44	WATER QUALITY MONITORING AND PRESERVATION	B. CRUDE OIL TERMINAL (COT): Effluent treatr for the oil based effluent should be provided so that th meets the MINAS. Regular monitoring should also be pH, Oil, Phenol, sulphate and BOD and record mainta	e treated wat carried out f
ETP th prescri	ibed by GPCB. Regular monitoring	d effluent and the treated effluent meets the norms g of the treated effluent is carried out. The treated effluent d norms. Please Refer Annexure 10.	Date: 21/11/2024
45	Statutory compliance	B. CRUDE OIL TERMINAL (COT): Hazardous may wastes should be handled as per the Hazardous Waste and Handling) Rules, 1989.	

Author	Submission: Complied isation for Storage, Handling and dis as per the HW Rules 1989 and its sul	sposar of 11 w is obtained from 51 CB. The handling of	Date: 1/11/2024	
46	WASTE MANAGEMENT	B. CRUDE OIL TERMINAL (COT): Melting pits of suitable design should be provided for recovery of oil from oily sludge (crud oil tanks bottom). The possibility of using chemicals/bio-surfactant for oil recovery may be explored and report submitted to this Ministry.		
Operati thus no		from tank bottom by adopting BAT. Melting pits have nt of oil in the sludge. The sludge generated is collected, t kiln/incineration.	Date: 21/11/2024	
47	B. CRUDE OIL TERMINAL (COT): Raw sludge should be in lagoons having impervious lining with suitable run off / run control facilities.			
No lago	Submission: Complied cons are required as quantity of sludges to Common Incineration facility/ for	ge generation is low and is collected in drums. The drums or Co-processing in cement kiln.	Date: 21/11/2024	
48	WASTE MANAGEMENT B. CRUDE OIL TERMINAL (COT): Treated sludge should either incinerated or used for land fill purposes within the COT premises in consultation with the Gujarat Pollution Control Bo		the COT	
		ssing in Cement Kiln or Common Incineration facility for	Date: 21/11/2024	
49	WATER QUALITY MONITORING AND PRESERVATION	B. CRUDE OIL TERMINAL (COT): The ground was should be carried out around sludge lagoons and land for the control of the contro		
	Submission: Complied plicable due to above pt. 5 and 6.		Date: 21/11/2024	
50	MISCELLANEOUS	C. CRUDE OIL & PRODUCTS PIPELINE: Necessary for acquiring forest land (ROW) should be obtained from concerned authorities. The route of the pipelines shoul so as to avoid the corals, mangroves, forest lands, etc., that the sensitive areas are not adversely affected.	om the d be selected	
PPs S Compli	Submission: Complied ied.		Date: 21/11/2024	
51	MISCELLANEOUS	C. CRUDE OIL & PRODUCTS PIPELINE: The proshould ensure minimum cutting of trees, damage to the vegetation, soil erosion and minimum disturbance to the services during laying of pipeline and construction of lestations.	e native ne existing	
	Submission: Complied inery complex is established on Barr	ren Land.	Date: 21/11/2024	
52	MISCELLANEOUS	C. CRUDE OIL & PRODUCTS PIPELINE: A progr	ram of re-	

No re-	Submission: Complied eyegetation required as refinery is established.	blished on barren land. However, a robust green has	Date: 21/11/2024
53	GREENBELT C. CRUDE OIL & PRODUCTS PIPELINE: All around the bod pump site, adequate green belt should be developed.		ound the booste
	Submission: Complied oplicable.		Date: 21/11/2024
54	WASTE MANAGEMENT C. CRUDE OIL & PRODUCTS PIPELINE: Floor washings and spills should be collected and treated properly before disposal.		
PPs Comp	Submission: Complied lied.		Date: 21/11/2024
	-	C. CRUDE OIL & PRODUCTS PIPELINE: Risk a along with the on-site and off-site emergency prepare should be submitted to this Ministry within one year	21/11/2024 assessment reportedness plans

Visit Remarks

Last Site Visit Report Date:	N/A	
Additional Remarks:	All Annexures are attached as Additional Attachment.	

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Acknowledgement

Proposal Name	Jamnagar Refinery Complex of M/s RPL at Motikhavdi, Jamnagar, Gujarat-Proposed expansion of crude processing capacity from 18 to 27 MMTPA with no additional pollution load-reg.	
Name of Entity / Corporate Office	Reliance Industries Ltd.	
Village(s)	Jogvad	
District	IAMNAGAR	

District JAMNAGAR

Proposal No.	J-11011/25/93-IA-II (I)		
Plot / Survey / Khasra No.			
State	GUJARAT		
MoEF File No.	J-11011/25/93-IA-II (I)		

Category	Industrial Projects - 2	
Sub-District	Lalpur	
Entity's PAN	****5055K	
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED	

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office

Reliance Industries Ltd.

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	2421	2421
Total	2421	2421

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Crude oil processing capacity	Others:MMTPA	N/A	27	27	

Conditions

Sr.No.	Condition Type	Condition Details	
1	AIR QUALITY MONITORING AND PRESERVATION	The refinery is permitted to operate at the expanded capacity without exceeding the earlier stipulated pollution load of 24 TPD SO2 emissions. SO2 emission report may be made on a daily bas for all the stacks (fuel burning and process emissions) through the computerized monitoring mechanism as per the format attached. Further, regular monitoring of stacks every fortnight must also be carried out to cross check the data obtained from computerized monitoring by engaging a reputed organization such as NEERI. I addition, a monthly S-balance statement indicating type of crude, S-content, product S-content, SO2 emission etc. may be made. D fortnightly and monthly reports generated as above should be sent the GPCB, CPCB & MoEF.	
Regular refinery in Annex SO2 em cross che monitori	complex which is below the limits xure I-A. The refinery now has con issions are captured in real time. Ea eck the computerised monitoring.	carried out for measuring total SO2 emission from the prescribed. SO2 emission monitoring report is included attinuous online emission monitoring system in which the ach stack is manually monitored on a monthly basis to A MoEF approved agency has been engaged for the onthly Sulphur balance statements are prepared as	Date: 22/11/2024
2	MISCELLANEOUS	The project authorities should come out with a fresh post-project EIA report within 6 months which should also take into account the impact of 250 MW X 4 petro-coke based power plant for review.	
Post-pro	ubmission: Complied nject EIA was carried out by NEER ne 4X250 MW coke-based plant ha	I The Report has been submitted to MoEF in November as not been established.	Date: 22/11/2024
3	Statutory compliance All Conditions stipulated by MoEF in the environmental clearar for 18 MMTPA Crude processing vide ministry letter of even nu dated 15th September 1995 and NOC granted by GPCB to the 2′ MMTPA capacity must be strictly adhered to.		of even numb
	ubmission: Complied litions are compiled.		Date: 22/11/2024
4	The company must give an undertaking to implement the recommendations of the "carrying capacity study for management gulf of Kutch" being undertaken by the Govt of Gujarat.		nanagement o
	ubmission: Complied We have enquired from GoG regard	ling a report of the study on carrying capacity of Gulf of thave such study report.	Date: 22/11/2024
Noted. V	r its recommendations. They do no	J 1	
Noted. V	r its recommendations. They do no MISCELLANEOUS	Pressurized storage of LPG should be reduced, and of shift to either cryogenic/mounded storage within a per	

Visit Remarks		
Last Site Visit Report Date:	N/A	
Additional Remarks:	All Annexures are attached as Additional Attachment.	
Note: This calculates and decreased in a construction of the desired by any instance of the decreased in the decreased in		

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Acknowledgement

Proposal Name	Environmental clearance for expansion and modernization of petrochemical refinery complex at Village Meghpar/Padana, Tehsil Lalpur Taluka
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	JAMNAGAR

Proposal No.	J.11011/232/2005-IA II - (I)
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J.11011/232/2005-IA II - (I)

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / RELIANCE INDUSTRIES LIMITED **Corporate Office**

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	2864	2864
Total	2864	2864

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Crude Oil Processing Capacity	Others:MMTPA	N/A	59.7	59.7	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The company shall ensure strict implementation of compliance to the stipulations made by MOEF vide OM no. J-11011/25/1994-IA~1 dated 15th September 1995 and 6th September, 2000.

PPs Submission: Complied
Being Complied with.

Date:
22/11/2024

AIR QUALITY

MONITORING AND
PRESERVATION

The gaseous emissions (SO2, NOx, CO, NMHC & Benzene) from the various process units shall conform to the standards prescribed under the 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 unit should not be restarted until the control measures are rectified to achieve the desired efficiency.

PPs Submission: Complied

The gaseous emissions (SO2, NOx, CO etc) from the various process units comply to the requirement prescribed by GPCB and of Refinery Standards as notified on 18th March 2008.

Date: 22/11/2024

AIR QUALITY
3 MONITORING AND
PRESERVATION

Ambient air quality monitoring stations, [SPM, SO2, NOx and NMHC, Benzene] shall be set up in the refinery complex in consultation with SPCB, based on occurrence of maximum ground level concentration and downwind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment shall be installed for measurement of SO2 and NOx. Data on VOC shall be monitored and submitted to the SPCB / Ministry.

PPs Submission: Complied

AAQM stations have been setup based on the modelling reports of NEERI. The monitoring parameters are as per the NAAQS 18th November 2009. Please Refer Annexure 5-B. Continuous on-line stack monitoring for all the stacks is provided. Ambient HC monitoring at the plant periphery is carried out and submitted. Regular LDAR programs are conducted for fugitive emissions in accordance with the MoEF notification- Refinery Standards as notified on 18th March 2008. Please refer Annexure 13.

Date: 22/11/2024

AIR QUALITY

4 MONITORING AND
PRESERVATION

The total SO2 emission from the refinery complex shall not exceed 49TPD after fully stabilizing of the expansion and modernization of the refinery complex and upgrading the existing facilities. SO2 emission report may be made on daily basis for all the stacks (fuel burning and process emissions through the computerized mechanism). Further, regular monitoring of stacks every fortnight must also be carried out to cross check the data obtained from computerized monitoring by engaging a reputed organization. In addition a monthly Sulphur balance statement indicating type of fluid, its S content, product s-content. SO2 emission etc. may be made. Daily, fortnightly and monthly reports generated as above shall be sent to the GPCB, SPCB and MoEF.

PPs Submission: Complied

Regular monitoring and measurement are carried out for measuring total SO2 emission from the refinery complex which is below the limits prescribed. The total SO2 emission as reported in the annexure is between 44.07 and 46.34 MT/day at the lowest and highest levels. Monitoring is included in Annexure I-A and I-B. The refinery now has continuous online emission monitoring system in which the SO2 emissions are captured. Each stack is monitored monthly by MoEF

Date: 22/11/2024

recognized laboratory/consultant to cross check computerized monitoring. Complied. AIR QUALITY All the Sulphur Recovery Units shall have tail gas treatment (TGT) MONITORING AND 5 facilities and the overall efficiency of the SRU with TGT unit shall be **PRESERVATION** Date: **PPs Submission:** Complied 22/11/2024 Please refer Annexure 4-B for SRU Efficiency. AIR QUALITY Ultra Low-NOx burners shall be provided in the new furnaces to MONITORING AND 6 avoid excessive formation of NOx. The existing low NOx burners are **PRESERVATION** also to be phased out and replaced with Ultra low-NOx burners. Date: PPs Submission: Complied 22/11/2024 The emission levels are well below the prescribed norms of GPCB. The requisite numbers of effluent quality monitoring stations shall be planned with adequate facilities especially for parameters like WATER QUALITY phenols, sulphides, oil and grease, suspended solids, BOD, COD, pH 7 MONITORING AND and flow. The salinity and temperature of the return seawater shall be **PRESERVATION** monitored periodically and monitored data submitted to the GPCB and Ministry of Environment & Forests on a periodic basis. PPs Submission: Complied All the effluent parameters are monitored in the central laboratory that is NABL approved. The Date: effluent parameters are monitored at source of generation and at the outlet of the effluent treatment 22/11/2024 plant. Please refer Annexure 7-A and 7-B. The return seawater before discharge to outfall is monitored for salinity and temperature and submitted to authorities. Please refer Annexure 9 for Sea Water return analysis report. WATER QUALITY M/s RIL shall monitor the groundwater quality at the locations as 8 MONITORING AND suggested by the Central Ground Water Board. Monitoring results of **PRESERVATION** the same shall be submitted to the GPCB/CPCB and MOEF. PPs Submission: Complied Date: The groundwater quality is monitored in nearby villages at locations suggested by Central Ground 22/11/2024 Water Board. The monitoring results are submitted periodically to authorities. Please refer Annexure 11. Ground water quality in nearby locations. WATER QUALITY M/s RIL shall undertake rainwater harvesting measures to recharge 9 MONITORING AND the ground water in the area in consultation with Central Ground **PRESERVATION** Water Board and Gujarat Pollution Control Board. PPs Submission: Complied Date: Rainwater Harvesting: A network of storm water ponds is developed having capacity around 1.56 22/11/2024 million cum and the rainwater is reused. The storm water run-off is collected in the ponds. Two recharge wells have also been established in the green belt for ground water recharge. M/s RIL shall undertake measures to recover oil from oily sludge WASTE MANAGEMENT 10 and to charge into the feed of Delayed Coker Unit. An incinerator has to be provided for the oily rags as per the guidelines of CPCB. **PPs Submission:** Complied Date: The Oily sludge recovered from ETP is re-processed in Delayed Coker unit. Oily rags from SEZ 22/11/2024 area are incinerated (at the approved Common Hazardous Waste Incinerator (CHWI) facility) or sent for Co-processing in Cement Industry. Human Health Environment Occupational Health Surveillance of the employees and workers 11

shall be done on a regular basis and records maintained as per the Factories Act. PPs Submission: Complied Date: Occupational Health Surveillance of the employees and workers are conducted regularly, and the 22/11/2024 records are maintained as per the Factories Act. The periodical Medical Surveillance of all employees is carried out annually. The extension of the existing tank farm shall be designed in such a way that the residual flow including floor washing do not percolate to the marine areas. The augmentation and expansion of the marine 12 Marine/Coastal facilities like product berths, Crude and product SPMs, seawater intake channel and outfall shall be done in consultation with the National Institute of Oceanography. **PPs Submission:** Complied Date: There is no floor washing at the tank farm area. Appropriate design measures have been considered 22/11/2024 and implemented so that the marine areas are not affected by the tank farm operations. The augmentation and expansion of the marine facilities has been carried out in consultation with NIO. The marine water quality shall be regularly monitored for the water quality (temperature, petroleum hydrocarbons, phenols, sulphides, and total organic carbon), sediment quality (trace elements, petroleum hydrocarbons, TOC and sediment size) and biological parameters Marine/Coastal 13 (primary productivity, benthos, fish quality and growth, biomass, phytoplankton and zooplankton). The present monitoring program shall be continued and upgraded for the expansion and modernization of the refinery complex. **PPs Submission:** Complied A marine environment study is conducted by NIO periodically for monitoring all physical, chemical, Date: ecological and biological parameters in the marine environment. Regular analysis is carried out of 22/11/2024 the seawater both upstream and downstream of the diffuser, for monitoring parameters temperature, petroleum hydrocarbons, phenols, sulphides, total organic carbon, salinity etc Please refer Annexure 9 for Seawater quality at outfall. No discharge of crude oil / products washings shall be done in the Gulf. No dredging in the sea should be undertaken except where unavoidable during construction and operation while augmenting and 14 Marine/Coastal expansion of the marine facilities. Details of the same shall be provided to the Director, Marine Park & Sanctuary, Jamnagar, and Gujarat Pollution Control Board. Date: PPs Submission: Complied 22/11/2024 No crude oil washings are permitted in the Gulf as a part of marine operations. Fugitive emissions of HC from product storage tank farms etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations. Necessary measures shall be adopted AIR QUALITY MONITORING AND so as to ensure that the NMHC levels outside the refinery complex 15 **PRESERVATION** premises does not exceed 160 µg/m3. Monitored data shall be submitted to the GPCB / CPCB every three months and to Ministry of Environment & Forests every six months. **PPs Submission:** Complied Date: More than 46,290 gas detectors and alarms are installed in the Jamnagar complex at strategic 22/11/2024 locations for detecting toxic gas and HC leakage. Necessary measures like LDAR, gas detectors and monitors etc are in place along with corresponding procedures for ensuring control of HC emissions.

Regular monitoring of NMHC levels around the boundary of the plant is conducted. Complied.

16	MISCELLANEOUS	The Company shall also comply with all the condition safeguards prescribed in the EIA & Risk Assessment For prepared by NEERI. Pressurized storage of LPG shall company must shift to either cryogenic/mounded storage.	Reports be reduced an
	Submission: Complied ized storages of LPG have been reduced to the contract of	ced	Date: 22/11/2024
17	Risk Mitigation and Disaster Management	The On-site and Off-site Emergency Preparedness Place Contingency Plans, Marine Disaster Management Plan updated for the expansion and modernization for the errefinery throughput and submitted to the Ministry before commissioning at the enhanced capacity.	shall be
Compre regular		dness Plans have been developed. These are updated at edness Plans have been developed by District pproved by Indian Coast Guard.	Date: 22/11/2024
18	MISCELLANEOUS	The Environmental Management Cell and laboratory the collection of the samples shall be augmented with facilities and qualified personnel and directly report to executive of the refinery complex.	suitable
A full-f	Submission: Complied ledged Environmental Cell headed by ted by suitably qualified engineers is	y Vice President who reports to the Chief Executive and set-up.	Date: 22/11/2024
19	AIR QUALITY MONITORING AND PRESERVATION	For control of fugitive emissions, the company shall existing flare system and route all unsaturated hydroca flare system in addition to the existing flare system. All and other equipment where there is a likelihood of HC be provided with LEL indicators and also provide for it isolation of such equipment, in case of a leakage. The adopt Leak Detection and Repair (LDAR) program for and control of fugitive emissions.	rbons to the Il the pumps leakages sha mmediate company shal
The saf	d. Procedures are developed and impe MoEF notification- Refinery Standa	ocarbons are routed to adequate flare systems which are lemented for LDAR programs and are in accordance ards as notified on 18th March 2008. Please refer	Date: 22/11/2024
20	AIR QUALITY MONITORING AND PRESERVATION	All new stacks shall be of appropriate design and hei be attached to pollution control systems, wherever nec stacks in the complex must meet the minimum stack he prescribed in the Environment Protection Rules.	essary. All
All the	Submission: Complied stacks are provided in accordance to Environmental Protection Rules.	the CPCB guidelines for stack height and as prescribed	Date: 22/11/2024
21	MISCELLANEOUS	All new standards / norms which are being proposed refinery projects I petrochemical units shall be applical proposed expansion and modernization of the petroche complex. These standards shall be incorporated into the for the proposed expansion and modernization. The excomplex shall also be upgraded to the new above-ment standards.	ble for the mical refiner e detail design isting refinery

standards.

PPs Su Complie	abmission: Complied d.		Date: 22/11/2024
22	AIR QUALITY MONITORING AND PRESERVATION The Central Pollution Control Board shall carr monitoring of all the stacks for SO2 and NOx.		independent
PPs Su Noted.	abmission: Complied		Date: 22/11/2024
23	WATER QUALITY Ground water shall not be tapped for construction, industrial or domestic uses including the township. All the water requirements the refinery complex shall be met by desalination of seawater.		
	abmission: Complied tion plants have been installed to mee	et the total water demand of the refinery complex.	Date: 22/11/2024
24	A new effluent treatment plant with primary, secondary and tertial treatment facility shall be constructed to cater to the additional effluent load. Liquid effluents shall be treated to conform to the standards stipulated by the GPCB I Ministry of Environment & Forests under EPA 1986 and also the new norms being specified. Treated effluent be recycled and reused to achieve zero discharge of effluent. The domestic effluent after treatment and conforming to the prescribed standards shall be used for greenbelt development.		dditional form to the conment & g specified. The discharge of the order of the conforming to the confo
State-of- facilities		provided with Primary, Secondary and Tertiary the treated water. The treated water meets all the -A and 7-B.	Date: 22/11/2024
25	The return seawater (brine from desalination plant, cooling tower blow down etc.) shall be discharged to the sea through a properly designed diffuser system. The existing diffuser system shall be augmented to cater to the additional discharge volume. The augmentation of the existing diffuser system/any other diffuser system in terms of dispersion in the sea shall meet the standards and certified by M/s National Institute of Oceanography. The company shall take the approval of the GPCB for the discharge of the return sea water.		h a properly n shall be e. The er diffuser e standards and The company

PPs Submission: Complied

The existing diffuser system has been augmented to cater to the additional discharge volume. The augmented diffuser system and the location of discharge has been decided in consultation with M/s National Institute of Oceanography (NIO). GPCB has granted approval for the discharge.

Date: 22/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board! Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in.This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the

		concerned and a copy of the same should be forwarded Regional office.	to the
The accentification the State	onmental clearance by the Ministry and Cate Pollution Control Board, has been pu	ne public that the project has been accorded Copies of the clearance letter were made available with ablished within the stipulated period in two local gion. The copy of the same has been submitted.	Date: 22/11/2024
2	MISCELLANEOUS	The Project Authorities should inform the Regional C as the Ministry, the date of financial closure and final a project by the concerned authorities and the date of corland development work.	approval of th
PPs Comp	Submission: Complied lied.		Date: 22/11/2024
3	MISCELLANEOUS	The project authorities must strictly adhere to the stip by the Gujarat State Pollution Control Board and the S Government.	
PPs Comp	Submission: Complied lied.		Date: 22/11/2024
4	MISCELLANEOUS	No further expansion or modernization in the plant slout without prior approval of the Ministry of Environm Forests.	
PPs Noted	Submission: Complied		Date: 22/11/2024
5	AIR QUALITY MONITORING AND PRESERVATION	At no time, the emissions shall go beyond the prescri In the event of failure of any pollution control system a units, the respective unit should be immediately put ou and shall not be restarted until the desired efficiency ha achieved.	ndopted by th t of operation
Emiss	Submission: Complied ions are within the standards prescribed reedance corrective actions are laid down	by the concerned authorities. In case of any likelihood	Date: 22/11/2024
6	Noise Monitoring & Prevention	The overall noise levels in and around the plant area well within the standards (85 dBA) by providing noise measures including acoustic hoods, silencers, enclosur sources of noise generation. The ambient noise levels sto the standards prescribed under EPA Rules, 1989 viz time) and 70 dBA (night time).	control es etc. on all should confor
Approinclud area area and co	ling acoustic hoods, silencers, enclosures re kept well within the standards. Regula	provided to identified sources of noise generation setc. The overall noise levels in and around the plant ar monitoring of the ambient noise levels is conducted monitoring data are submitted to the authorities.	Date: 22/11/2024

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. Date: **PPs Submission:** Complied 22/11/2024 Obtained the necessary approvals from Chief Controller of Explosives. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and 8 Statutory compliance Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes. Date: PPs Submission: Complied 22/11/2024 Authorization for collections; treatment; storage and disposal of HW is obtained from SPCB. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government 9 **MISCELLANEOUS** along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes. Date: PPs Submission: Complied 22/11/2024 The total expenditure for the environmental protection measures is provided in Annexure 12. The stipulated conditions will be monitored by the Regional of this Ministry at Bhopal/Central Pollution Control Board/State Pollution 10 Statutory compliance Control Board. A six-monthly compliance report and the monitored data should be submitted to them regularly. Date: **PPs Submission:** Complied 22/11/2024 Noted. A six-monthly compliance report and the monitored data are submitted to MoEF regional office on regular basis and Monthly monitoring reports to GPCB. Visit Remarks **Last Site Visit Report Date:** N/A All Annexures are attached as Additional Attachment. **Additional Remarks:** Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Acknowledgement

Proposal Name	Petroleum and Petrochemical Complex in Multi products Special Economic Zone
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	IAMNIACAD

District JAMNAGAR

Proposal No.	J-11011/149/2007 - IA II (I)
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-11011/149/2007 - IA II (I)

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	4545	4545
Total	4545	4545

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity a
1	Methanol Synthesis	Others:MMTPA	N/A	0.65	0.65	
2	Acetic Acid	Others:MMTPA	N/A	1	1	
3	Vinyl Acetate Monomer (VAM)	Others:MMTPA	N/A	0.7	0.7	
4	Polyvinyl Acetate (PVA)	Others:MMTPA	N/A	0.35	0.35	
5	Polyvinyl Alcohols (PVOH)	Others:MMTPA	N/A	0.125	0.125	
6	Multifeed Cracker Complex- Ethylene	Others:MMTPA	N/A	3.45	3.45	
7	Ethylene Oxide derivatives like MEG, DEG, TEG	Others:MMTPA	N/A	1.25	1.25	
8	Polyethylene polymers like (LDPE / LLDPE / HDPE)	Others:MMTPA	N/A	0.75	0.75	
9	Acrylic Acid & derivatives, SAP	Others:MMTPA	N/A	0.45	0.45	
10	n-Butyl Acrylate, n- butyraldehyde, n-Butanol, 2- EthylHexanol	Others:MMTPA	N/A	0.5	0.5	
11	Jamnagar Export Refinery (JERP) (already under implementation)	Others:Kbsp crude	N/A	580	580	
12	Propylene derivatives like Propylene Oxides, Cumene, Phenol	Others:MMTPA	N/A	0.4	0.4	
13	Propylene Glycols	Others:MMTPA	N/A	0.2	0.2	
14	Hydrogen Peroxide (H2O2)	Others:MMTPA	N/A	0.32	0.32	
15	Fumaric Acid	Others:MMTPA	N/A	0.125	0.125	
16	PET	Others:MMTPA	N/A	1.5	1.5	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details	
1	AIR QUALITY MONITORING AND PRESERVATION	The product loading gantry shall be connected to the in closed circuit through the vapour arm connected to on fugitive emissions shall be regularly monitored and maintained.	the tanker. Dat
Complie	abmission: Complied and for the complex. The fugitive emed and records are maintained.	issions in the product loading gantry are regularly	Date: 22/11/2024
2	WATER QUALITY MONITORING AND PRESERVATION	The centralized ETP and standalone ETP shall be de on the raw water and wastewater quality. Design detail be submitted to the Ministry. The effluent shall be seglow TDS and High TDS stream which shall after primand tertiary treatment shall be used and recycled for gradevelopment, cooling tower make up etc. The treated comply with the prescribed standards. The return sea was discharged into the sea through a multi-port diffuser an identified by NIO.	Is of ETP shall regated into ary, secondary reen belt effluent shall water shall be
For the operation of the segregate State-of facilities prescrib	ed at source based on its stream cha- art Effluent Treatment Plants (ETP for the recycle and reuse of the tre	treated in the ETP. The wastewater generated are aracteristics and Total Dissolved Solids (TDS) levels. It's) are provided with Primary, Secondary and Tertiary ated water. The effluents are treated to comply with the The return seawater is discharged into the Gulf through in identified by NIO.	Date: 22/11/2024
3	Marine/Coastal	The Company shall provide details of the model used diffuser for discharge of saline water into sea and the existing diffuser which is based on the HYDRODYN compare with CORMIX model. The depth of discharging shall be determined as per the above model.	efficacy of the model and also
During of seawater MoEF for	r intake facilities, desalination plant or the projects being implemented in	of the projects CRZ clearance for augmentation of s and discharge of return seawater was obtained from a 2015. This included numerical modelling for the g was found to be in order and accepted by the Ministry.	Date: 22/11/2024
4	WATER QUALITY MONITORING AND PRESERVATION	The hot water effluent and outfall shall be discharge prescribed standards.	d as per the
PPs Si Complie	ubmission: Complied ed.		Date: 22/11/2024
5	WATER QUALITY MONITORING AND PRESERVATION	The company shall comply with effluent and emission Petrochemical Plants of CPCB/MoEF.	on standards fo
	ubmission: Complied	ne prescribed standards for refineries and petrochemical	Date: 22/11/2024

6 AIR QUALITY
6 MONITORING AND
PRESERVATION

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 SO2, NOx, PM10, Ozone, CO, Benzene and Benzo (a) pyrene and data submitted to MoEF/CPCB/SPCB.

PPs Submission: Complied

Additional adequate numbers of AAQMs stations are set up and monitored as per the standards and the data submitted to MoEFCC and GPCB. Pl. Refer Annexure 5-C.

Date: 22/11/2024

7 AIR QUALITY
MONITORING AND
PRESERVATION

Action plan for reduction of SO2 and NOx emissions from the present level shall be submitted to the Ministry.

PPs Submission: Complied

Maximized usage of gaseous fuel and use of syngas as fuel have reduced SO2 and NOx emissions to the extent possible.

Date: 22/11/2024

8 AIR QUALITY
8 MONITORING AND
PRESERVATION

The company shall install low NOx burner to mitigate the NOx emission and cyclone, venturi scrubbers, sulphur recovery unit and tail gas treatment for mitigating SO2 emission.

PPs Submission: Complied

The best available technology is incorporated in FEED of the project for reduction and control measures for mitigating emissions viz; SO2, PM, NOx etc.

Date: 22/11/2024

9 AIR QUALITY
9 MONITORING AND
PRESERVATION

The company shall install detectors for phosgene and specific steps shall be taken for phosgene management.

PPs Submission: Complied

Phosgene plant is not set up and thus Not Applicable.

Date: 22/11/2024

AIR QUALITY
10 MONITORING AND
PRESERVATION

The gaseous emissions (SO2, PM10, NOx, 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.

PPs Submission: Complied

Gaseous emissions in the Refinery complex are within the stricter standards prescribed by the authorities. In case of any likelihood of exceedance corrective actions are laid down to avoid it.

Date: 22/11/2024

AIR QUALITY
11 MONITORING AND
PRESERVATION

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 (PM10, SO2, NOx, VOC and HC (Ambient levels as well as stack emissions) 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.

PPs Submission: Complied

Compliance reports are submitted to authorities regularly. The criteria parameters namely Particulate matter (PM)10, SO2, NOx, VOC and HC (Ambient levels) and critical sectorial parameters,

Date: 22/11/2024

indicated for the complex are 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 companys website in a summarized form. AIR QUALITY Process emissions shall be controlled by scrubbers. Flue gas MONITORING AND 12 emissions from the various stacks attached to the boilers, **PRESERVATION** furnace/heaters shall conform to the prescribed standards. Date: **PPs Submission:** Complied 22/11/2024 The best available technology is incorporated and established in FEED for the units to conform to the prescribed standards. Pl. Refer Annexure 2C. The gaseous emissions from the DG sets shall be dispersed through AIR QUALITY stack of adequate height as per CPCB/State Pollution Control Board 13 MONITORING AND standards. Acoustic enclosures shall be provided to mitigate the **PRESERVATION** noise. Date: PPs Submission: Complied 22/11/2024 Suitable stack height as per the prescribed standards and acoustic enclosures are provided for all the DG sets. The company shall use low sulphur fuel to minimize SO2 emission. AIR QUALITY Stacks which are contributing to more SO2 emissions shall be 14 MONITORING AND identified and SO2 emissions shall be reduced by changing the fuel or **PRESERVATION** by increasing the height of major stacks to bring GLC within the prescribed limits. PPs Submission: Complied Date: The best available technology is incorporated and established in the Front-End Engineering Design 22/11/2024 (FEED) for the units for reduction and minimization of GLC. All stack heights are in accordance to standards and there is no exceedance on the GLCs monitored. 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 AIR QUALITY of floating roof seals and proper maintenance of floating roof seals MONITORING AND 15 for storage tanks; preventive maintenance of valves and other **PRESERVATION** equipment; regular skimming of oil from separators/equalization basin in ETP. The units shall assess and minimize the fugitive VOC emission wherever possible. **PPs Submission:** Complied Date: The best available technology is incorporated and established in the FEED for reduction and 22/11/2024 minimization of VOC emissions. The mitigation measures for minimizing the fugitive VOC emission during the operational phase is assessed and wherever actions required to control emissions, measures are taken. AIR OUALITY Fugitive emissions of HC from product storage tank yards etc must MONITORING AND be regularly monitored. Sensors for detecting HC leakage shall also 16 **PRESERVATION** be provided at strategic locations. Date: PPs Submission: Complied 22/11/2024 Complied. AIR QUALITY M/s RIL shall implement Leak Detection and Repair (LDAR) MONITORING AND 17 programme using a portable VOC detection instrument shall be done on distribution lines and tanks. **PRESERVATION**

		e with the MoEF notifications 2008 and 2012 for the	Date: 22/11/2024
18	AIR QUALITY MONITORING AND PRESERVATION	Measures shall be undertaken for odour control and odours compounds shall be maintained.	inventory of
PPs (Submission: Complied ied.		Date: 22/11/2024
19	AIR QUALITY MONITORING AND PRESERVATION	The company shall ensure that no halogenated organic is sent to 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 incinerator.	
The sate to the o		are routed to the flare system and the HC is recovered and emergency discharges are routed to the flare. No	Date: 22/11/2024
20	WASTE MANAGEMENT	The company shall obtain Authorization for collectidisposal of hazardous waste under the Hazardous Wa (Management, Handling and Transboundary Moveme for management of Hazardous wastes and prior permit GPCB shall be obtained for disposal of solid / hazardous TSDF. Details of regarding type of catalyst to be used disposal of spent catalyst shall be submitted. The comincinerate the oil cotton rags only. The design of the is secured landfill facility shall be as per the CPCB guidents.	ste ent) Rules, 200 ission from ous waste in th I and plan for apany shall ncinerator and
Author	Submission: Complied rization for collection, storage and disped from GPCB.	posal of hazardous waste generated from the units is	Date: 22/11/2024
21	MISCELLANEOUS	M/s RIL shall undertake measures for firefighting fa of emergency.	acilities in case
	Submission: Complied hting facilities including dedicated fire	e stations are operational so as to cover all the units.	Date: 22/11/2024
22	MISCELLANEOUS	The company shall submit time bound action plan for management. Further, possibility of setting up of salt facility for management of huge volume of brine shalt ie up with the salt manufacturing units in the area for	manufacturing l be explored o
	Submission: Complied This possibility has been explored. He	owever, it is not found feasible.	Date: 22/11/2024
23	Risk Mitigation and Disaster Management	The company shall prepare integrated risk assessme considering domino effect which shall be done after f layout of the Petrochemical Complex with precise loc individual plants as well as all offsite and battery limit of the Petrochemical Complex and after all storage catank sizes are decided.	reezing overall cation of all t storage areas

The in	Submission: Complied tegrated risk assessment considering d of the units and storages.	omino effect has been carried out while freezing the	Date: 22/11/2024
24	Risk Mitigation and Disaster Management	The Quantitative Risk Assessment (QRA) shall be comprehensive manner by taking into all consideration but not limited to, a) Report to consider two mega six the same industrial area and shall deal with the risk a major incident (VCE, Flash fire) in either the existing proposed petrochemical complex and its domino effect other b) Report to consider precise layout of particular storages and storage quantities determined, details of safeguard provided against domino effect.	on listed below ze refineries in urising out of g refineries or ect on the each ar units, bulk
The Co	pject including the two refineries and t	sment study has been done once the overall layout of the projects was frozen along with the final layout of the cincludes the safeguards to be provided under domino	Date: 22/11/2024
25	Risk Mitigation and Disaster Management	All pressure vessels shall be of SIL-3 level product existing refineries.	at par with
PPs Compl	Submission: Complied ied.		Date: 22/11/2024
26	Risk Mitigation and Disaster Management	Any relief system for major hazardous releases sha double or triple backup system against the possibility	
	Submission: Complied ed in the FEED for the project.		Date: 22/11/2024
27	Risk Mitigation and Disaster Management	Risk assessment shall include BLEVE for propane considered in the lay out plan.	and shall be
PPs (Submission: Complied ied.		Date: 22/11/2024
28	MISCELLANEOUS	The company shall submit reports of last 2-3 years external safety audit.	regarding
	Submission: Complied audits are being conducted and the au	dit reports submitted to concerned authorities.	Date: 22/11/2024
29	MISCELLANEOUS	Since some of the design parameters have not been stage of project, once the Front End Engineering Des (FEED) is firmed up, necessary details for integrated available particularly with respect to lay out includin storages with storage quantities determined, details of safeguard provided against domino effect and other of prescribed in the specific conditions stipulated above catalyst and the mode of their disposal, steps for mitiand NOx releases details of phosgene management a for diffuser for discharged of saline water into the se submitted to the Ministry. The information provided before the Committee so that the Committee suggest correction, and if considered necessary additional en safeguards are stipulated for compliance by M/s RIL	sign Document I QRA study are ig, the bulk of safety system, details as e regarding gation of SO2 nd model used a shall be shall be place s mid-course vironmental

neral C	Conditions		,
	ubmission: Complied omplied with.		Date: 22/11/2024
34	Statutory compliance	The Company shall comply with all the conditions ministry's clearance letter no. J-111011/232/2005-LAugust,2005 for expansion and modernization of perefinery complex	A.II(I) dated 3rd
During to such as: The laborate to the m	fuel for cooking, toilets, sewage treatment camps for projects are being demo	d been set up with all necessary infrastructure facilities ment plant, safe drinking water, medical health care etcobilized. The generation of construction waste was kepnning. It has been managed to ensure no impact to the	22/11/2024
33	MISCELLANEOUS	Provision shall be made for the housing for the conwithin the site with all necessary infrastructure and fuel for cooking, mobile toilets, mobile sewage treat drinking water, medical health care, crèche etc. The in the form of temporary structure to be removed aft of the project. All the construction wastes shall be not there is no impact on the surrounding environment.	facilities such as ment plant, safe housing may be er the completion
Occupat medical During t	records are being maintained. The fir	d for the personnel working in the complex. The st aid facilities in the OHC have been strengthened. mber 24 100 percent scheduled employees medical	Date: 22/11/2024
32	Human Health Environment	Occupational health surveillance programme shall regular exercise for all the employees. The first aid occupational health centre shall be strengthened and records of each employees shall be maintained separate.	facilities in the the medical
PPs S i Complie	ubmission: Complied ed.		Date: 22/11/2024
31	GREENBELT	Green belt in 33% of the plant area shall be provide effects of fugitive emissions all around the plant as guidelines in consultation with local DFO.	
Rainwat	ubmission: Complied ter harvesting through a network of structed in the ponds. The water is recycled.	orm water ponds is developed. The storm water runoffed and reused.	Date: 22/11/2024
30	WATER QUALITY MONITORING AND PRESERVATION	M/s RIL shall undertake rainwater harvesting mea the ground water and also to minimize the water dra	
projects	implemented are as per the assessed	ational and the rest in the design phase. The impacts and risks. The execution of the remainder ill be put up to the Ministry for a fresh approval.	Date: 22/11/2024

		by the Gujarat Pollution Control Board and the State	
	Submission: Complied and ards stipulated by GPCB for the con	nplex are being complied with.	Date: 22/11/2024
2	MISCELLANEOUS	No further expansion or modernization in the plant carried out without prior approval of the ministry of Forests.	
PPs ! Noted.	Submission: Complied		Date: 22/11/2024
3	MISCELLANEOUS	At no time, the emission should go beyond the pres In the event of failure of any pollution control system units, the respective unit should be immediately put of and should not be restarted until the desired efficiency achieved.	n adopted by thout of operation
PPs ! Noted.	Submission: Complied		Date: 22/11/2024
4	Noise Monitoring & Prevention	The overall noise levels in and around the plant are well within the standards by providing noise control including acoustic hoods, silencers, enclosures etc. o noise generation. The ambient noise levels should costandards prescribed under EPA Rules.	measures n all sources of
All the	Submission: Complied units in the complex have been so desires such that the ambient noise levels complex that the ambient noise levels the ambient noise levels that the ambient noise levels that the ambient noise levels that the ambient noise levels the ambient noise levels that the ambient noise levels the ambient noise levels that the ambient noise levels the amb	gned by providing noise abatement and control onform to the standards prescribed.	Date: 22/11/2024
5	Statutory compliance	The project authorities must strictly comply with the made in Manufacture, Storage and import of Hazardo Rules 1989 as amended in 2000 for handling of hazardotte. Necessary approvals from chief controller of expobtained before commission of the project.	ous Chemicals rdous chemical
PPs S	Submission: Complied ied.		Date: 22/11/2024
6	MISCELLANEOUS	The project authorities will provide adequate funds and non-recurring to implement the conditions stipul ministry of Environment and Forest as well as the St along with the implementation schedule for all the costipulated herein. The funds so provided should not be any other purposes.	ated by the ate Governmer onditions
The fu		ated are used only for the implementation of the for any other purpose. Refer Annexure 12.	Date: 22/11/2024
7	Statutory compliance	The stipulated conditions will be monitored by the Ministry at Bhopal/Central Pollution Control Board Control Board. A six monthly compliance report and	State Pollution

	Submission: Complied x-monthly EC compliance and mo	nitoring report are submitted.	Date: 22/11/2024
8	Statutory compliance	The project proponent shall also submit six monthl status of compliance of the stipulated EC conditions of monitored data (both in hard copy as well as by erespective Regional office of MoEF, the respective z CPCB and the State Pollution Control Board.	including resul mail) to the
	Submission: Complied x-monthly EC compliance and mo	nitoring report are being submitted.	Date: 22/11/2024
9	MISCELLANEOUS	A copy of the clearance letter shall be sent by the p concerned Panchayat, Zilla Parisad/ Municipal Corpolocal Body and the local NGO, if any, from who sugrepresentations, if any were received while processing	oration, Urban gestions/
	Submission: Complied ied with.		Date: 22/11/2024
10	Statutory compliance	The Environmental statement for each financial yet March in Form-V as is mandated shall be submitted State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, on the website of the company along with the status environmental clearance conditions and shall also be respective Regional Offices of MoEF by e-mail.	to the concerned E Environment Shall also be put of compliance
		d plants and have been granted Consent to operate by	Date: 22/11/2024
11	Statutory compliance	The project proponent shall inform the public that the been accorded environmental clearance by the Minist the clearance letter are available with the SPCB/Comalso be seen at website of Ministry at http://envfor.ni advertised within seven days from the date of issue of letter, at least in two local newspapers that are widely the region of which one shall be in the vernacular lar locality concerned and a copy of the same shall be for concerned the Regional Office of the Ministry.	try and copies amittee and ma c.in This shall f the clearance y circulated in aguage of the
PPs S	Submission: Complied ied.		Date: 22/11/2024
12	MISCELLANEOUS	The project authorities shall inform the Regional O the Ministry, the date of financial closures and final a project by the concerned authorities and the date of s project.	approval of the
			Date:
PPs S Compli	Submission: Complied ied.		22/11/2024

PPs S Noted.	Submission: Complied		Date: 22/11/2024
14	MISCELLANEOUS	The Ministry reserves the right to stipulate addition found necessary. The company in a time bound man implement these conditions.	
	Submission: Complied ditional conditions if stipulated w	ill be complied with.	Date: 22/11/2024
15	MISCELLANEOUS	Any appeal against this environmental clearance so National Appellate Authority, if preferred, within a passes prescribed under section 11 of the National Environmental Clearance solutions. Authority Act, 1997.	period of 30 day
PPs S	Submission: Complied		Date: 22/11/2024
		The above conditions will be enforced, interalia ur provisions of the Water (Prevention & Control of Po	llution) Act,
16	MISCELLANEOUS	1974, Air, (Prevention & Control of Water Pollution Environment (Protection) Act, 1986 Hazardous Was Management and Handling) Rules, 2003/2008 and the Liability Insurance Act, 1991 along with their amend	tes (he Public

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All Annexures are attached as Additional Attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Acknowledgement

Proposal Name	Augmentation of Seawater Intake and Desalination Facilities at Sikka, Jamnagar - CRZ Clearance
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	IAMNACAD

District JAMNAGAR

Proposal No.	11-63/2013-IA.III
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	11-63/2013-IA.III

Category	Only CRZ
Sub-District	N/A
Entity's PAN	****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0.01	0.01
Total	0.01	0.01

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	-	Others:-	N/A	-	-	

Conditions

Specific Conditions

STATE CONTINUE TO THE	Sr.No.	Condition Type	Condition Details
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1	Marine/Coastal	All the conditions/ recommendations stipulated by G Zone Management Authority (GCZMA) vide letter no 2013-37-E dated 05.06.2013, shall be strictly complied	. ENV-10-
PPs Compl	Submission: Complied lied.		Date: 22/11/2024
2	Marine/Coastal	The depth of the stilling basins shall not exceed -12 is shall monitor the dredging activity so as to check that stilling basin does not exceed -12m.	
	Submission: Complied has certified and established the de	epth of the stilling basin with a depth of -12 m CD.	Date: 22/11/2024
3	Marine/Coastal	The maintenance dredge material shall be used for lo	w level raisin
PPs Comp	Submission: Complied lied.		Date: 22/11/2024
4	WATER QUALITY MONITORING AND PRESERVATION	The Project Proponent shall take the clearance of the ground water authority for undertaking construction of of desired depth of 12m.	
	Submission: Complied complied.		Date: 22/11/2024
5	Statutory compliance	All the mitigation measures submitted in the EIA reprepared in a matrix format and the compliance for each plan shall be submitted to MoEF&CC along with half compliance report to MoEF&CC-RO.	ch mitigation
	Submission: Complied ed in design and complied with an	d included as Annexure AA.	Date: 22/11/2024
6	Marine/Coastal Screens and trash bars shall be provided to avoid entry of fishes fish larvae in to the system.		
	Submission: Complied included in design and complied.		Date: 22/11/2024
7	Marine/Coastal	The outfall shall be at 1 km from shore at 12 m CD.	1
The exfrom the		ation suggested by NIO and approved GPCB. The discharge g diffuser in compliance with the conditions as stipulated in	Date: 22/11/2024
8	Marine/Coastal	There shall be no disturbance to the sand dunes.	
PPs Compl	Submission: Complied lied.		Date: 22/11/2024
9	Marine/Coastal	Periodic monitoring of coastal water shall be carried location.	out at outfall

	ubmission: Complied arried out at regular intervals	2	Date: 22/11/2024
10	Marine/Coastal	No construction work other than those permitted in C Regulation Zone Notification shall be carried out in C Regulation Zone area.	
	ubmission: Complied omplied with.		Date: 22/11/2024
11	MISCELLANEOUS	The project proponent shall set up separate environm management cell for effective implementation of the senvironmental safeguards under the supervision of a Sexecutive.	tipulated
	ubmission: Complied vironmental Management Cell is in pla	ace.	Date: 22/11/2024
12	Marine/Coastal	The Project Proponent shall not engage in any trench dredging either for water intake into the sea.	ning, digging or
	ubmission: Complied omplied.		Date: 22/11/2024
13	Marine/Coastal	a) The water quality especially for the salinity shall around the stilling basin & the outfall once in six mon should be submitted to Regional Office, MoEF&CC. It Chennai at the cost of the project proponent, shall submoEF&CC the annual inspection report on the function system & comparative level of pollution, every year tale approval as the base year.	ths & report b) The NCSCM, mit to the boning of the
Periodic stilling l		ed out. Refer Annexure 9. Monitoring around the CM. The first monitoring report by NCSCM submitted 019.	Date: 23/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
PPs Su Complie	abmission: Complied ed.	Date: 23/11/2024
2	MISCELLANEOUS	Full support shall be extended to the officers of this Ministry/ Regional Office at Bhopal by the project proponent during inspectio 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.
DD _G C ₁	abmission: Complied	Date:

Noted.			23/11/2024
3	Statutory compliance	A six-Monthly monitoring report shall need to be su project proponents to the Regional Office of this Min regarding the implementation of the stipulated condit	istry at Bhopal
PPs S Compli	Submission: Complied ed.		Date: 23/11/2024
4	MISCELLANEOUS	Ministry of Environment, Forests & Climate Chang competent authority may stipulate any additional commodify the existing ones, if necessary in the interest of and the same shall be complied with.	ditions or
PPs S Noted.	Submission: Complied		Date: 23/11/2024
5	MISCELLANEOUS	The Ministry reserves the right to revoke this cleara conditions stipulated are not complied with the satisfa Ministry.	
PPs S Noted.	Submission: Complied		Date: 23/11/2024
6	MISCELLANEOUS	In the event of a change in project profile or change implementation agency, a fresh reference shall be ma Ministry of Environment, Forests & Climate Change.	de to the
	Submission: Complied		Date:
Noted.			23/11/2024
	MISCELLANEOUS	The project proponents shall inform the Regional O the Ministry, the date of financial closure and final approject by the concerned authorities and the date of st development work.	office as well a
7 PPs S	MISCELLANEOUS Submission: Complied	the Ministry, the date of financial closure and final approject by the concerned authorities and the date of st	office as well as oproval of the cart of land Date:
7 PPs S Noted.		the Ministry, the date of financial closure and final approject by the concerned authorities and the date of st	Date: 23/11/2024
PPs S Noted.	Submission: Complied Statutory compliance Submission: Complied	A copy of the environmental clearance letter shall a on the website of the concerned State Pollution Contr EC letter shall also be displayed at the Regional Office Industries centre and Collector's Office/ Tehsildar's o	Date: 23/11/2024 lso be displayed of Board. The ce, District ffice for 30 Date: 200
PPs S Noted.	Submission: Complied Statutory compliance Submission: Complied	A copy of the environmental clearance letter shall a on the website of the concerned State Pollution Contr EC letter shall also be displayed at the Regional Office Industries centre and Collector's Office/ Tehsildar's o	Date: 23/11/2024 Llso be displayed to Board. The tee, District ffice for 30 Date: 23/11/2024

		23/11/2024		
Visit Remarks				
ast Site Visit Report Date:	N/A			
Additional Remarks:		iched as Additional Attachment.		
considered as conclusion on any action of	he details submitted by project proponent. on the compliance of the project. This is s reference purpose.	trictly for the project proponent's		

Half Yearly Compliance Report 2024 01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Expansion of existing jetty by setting a new berth at Gulf of Kutch, Jamnagar - Environmental and CRZ Clearance		
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED		
Village(s)	N/A		
District	IAMNAGAD		

District JAMNAGAR

Proposal No.	IA/MIS/GJ/23582/2014	
Plot / Survey / Khasra No.	N/A	
State	GUJARAT	
MoEF File No.	11-34/2014-IA-III	

Category	INFRA-2
Sub-District	N/A
Entity's PAN	****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / **Corporate Office**

RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0.01	0.01
Total	0.01	0.01

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Handling of liquid products like Glycols, Acetic Acid, Naphtha, PX, Diesel, Benzene, VAM & Phenol	Others:MMTPA	N/A	8	8	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	'Consent to Establish' shall be obtained from State Pollution Con Board under the Air (Prevention and Control of Pollution) Act, 196 and the Water (Prevention and Control of Pollution) Act 1974.
	ubmission: Complied I CTO are obtained from GPCB.	Date: 23/11/202
2	WATER QUALITY MONITORING AND PRESERVATION	All the operational areas will be connected with the network of liquid waste collection corridor comprising of storm water, oily was and sewage collection pipelines.
	ubmission: Complied ed with as applicable.	Date: 23/11/202
	Marina (Canada)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other
3	Marine/Coastal	marine biodiversity components as part of the management plan. Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.
PPs Su	ubmission: Complied one regularly by NIO.	Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine
	ubmission: Complied	Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity. Date:
PPs Su Being do 4 PPs Su	ubmission: Complied one regularly by NIO.	Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity. Date: 23/11/202 Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle. Date: 23/11/202
PPs Su Being do 4 PPs Su	ubmission: Complied one regularly by NIO. Marine/Coastal ubmission: Complied	Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity. Date: 23/11/202 Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle. Date: 23/11/202

			23/11/2024
6	Marine/Coastal	Ships/barges shall not be allowed to release any of the sea. Any effluents from the Jetty which have lead characteristics shall be segregated and recycled/displayidelines.	achable
PPs Noted.	Submission: Complied		Date: 23/11/2024
7	AIR QUALITY MONITORING AND PRESERVATION	Location of DG sets and other emission generating be decided keeping in view the predominant wind demissions do not effect nearby residential areas. Instruction of DG sets shall comply with the guideling	lirection so that stallation and
PPs Compl	Submission: Complied lied.		Date: 23/11/2024
8	Marine/Coastal	No product other than permitted under the CRZ N shall be stored in the CRZ area.	Notification, 2011
	Submission: Complied rage in CRZ area is envisaged.		Date: 23/11/2024
9	WASTE MANAGEMENT	Municipal solid wastes and hazardous wastes shall per Municipal Solid Waste Rule, 2016 and Hazardo Management Rule, 2016.	
PPs Compl	Submission: Complied ied.		Date: 23/11/2024
10	MISCELLANEOUS	The Project Proponent shall take up and earmark socio-economic development and welfare measures under the CSR Programme. This shall be taken up of	as proposed
	Submission: Complied lan is already being implemented.		Date: 23/11/2024
11	MISCELLANEOUS	The project proponent shall set up separate environmental safeguards under the supervision of Executive.	e stipulated
	Submission: Complied by the cell is established.		Date: 23/11/2024
12	MISCELLANEOUS	The funds earmarked for environment manageme included in the budget and this shall not be diverted purposes.	
			D-4
PPs Noted.	Submission: Complied		Date: 23/11/2024

			Datas
	Submission: Complied and Complied with.		Date: 23/11/2024
14	Marine/Coastal	As proposed, the Company shall not carry of activity in the Eco- Sensitive area.	out any construction
PPs S Ensured	Submission: Complied		Date: 23/11/2024
15	MISCELLANEOUS	The proponent shall abide by all the commi recommendations made in the EIA/EMP report presentation to the EAC.	
PPs S Compli	Submission: Complied ed.		Date: 23/11/2024
16	MISCELLANEOUS	Company shall prepare operating manual in It shall cover all safety & environment related Measures to be taken for protection. One set of shall be made available at the project site. Avat each level of the management. All the scheen environmental monitoring shall be available as	d issues and system. of environmental manuvareness shall be createdules and results of
	Submission: Complied omplied and present set of SOPs	applicable to the new berth.	Date: 23/11/2024
17	MISCELLANEOUS	Corporate Social Responsibility-The Complaid down Environment Policy approved by the	•
	Submission: Complied r Annexure 15.		Date: 23/11/2024
18	MISCELLANEOUS	Corporate Social Responsibility- The Envir prescribe for standard operating process/proc focus any infringements/ deviation/violation forest norms/ conditions.	edures to bring into
PPs S Noted.	Submission: Complied		Date: 23/11/2024
19	MISCELLANEOUS	Corporate Social Responsibility- The hierar Administrative Order of the company to deal issues and for ensuring compliance with the conditions shall be furnished.	with environmental
	Submission: Complied gram for the Environment depart	ment is attached as Annexure 14.	Date: 23/11/2024
		Corporate Social Responsibility- To have p	roper checks and down system of

The fac	Submission: Complied cilities are certified with EMS ISO 140 will be done for the berth also.	01:2015 which covers this required reporting. The	Date: 23/11/2024
21	Marine/Coastal	The Project proponent shall ensure that there shall the existing mangroves patches near site and also end of water to avoid damage to the mangroves.	
	Submission: Complied g mangroves are about 4Kms from the	proposed project location.	Date: 23/11/2024
22	Marine/Coastal	As proposed, the Company shall undertake additional plantation in area of 100 ha.	nal mangrove
The Fo	Submission: Complied rest Dept. Jamnagar has carried out 10 submitted along with compliance repo	0 Ha of mangrove plantation. The letter confirming the orts vide dts:01/12/2019.	Date: 23/11/2024
23	Marine/Coastal	The Project proponent shall ensure that no creeks of blocked due to any activities at the project site and fr is maintained.	
	Submission: Complied however the location will not cause an	y such disturbance.	Date: 23/11/2024
24	Marine/Coastal	Shoreline should not be disturbed due to dumping. on shore line changes shall be conducted and mitigat necessary. The details shall be submitted along with monitoring report.	ion carried out
Already	Submission: Complied y established in EIA. No dumping is en ag. The shoreline changes are studied b	nvisaged. There will be no shoreline changes due to y NIO regularly.	Date: 23/11/2024
25	PUBLIC HEARING	The commitments made during the Public Hearing the Minutes shall be complied with letter and spirit. the action taken shall be submitted to the Ministry.	
Already	Submission: Complied y established in EIA. No dumping is eng. The shoreline changes are studied b	nvisaged. There will be no shoreline changes due to by NIO regularly.	Date: 23/11/2024
26	Marine/Coastal	As proposed, no capital and maintenance dredging out.	shall be carried
PPs S Not pro	Submission: Complied oposed.		Date: 23/11/2024
27	Marine/Coastal	While constructing berth/piles, an independent mo carried out by Government Agency/Institute to checl necessary measures shall be taken on priority basis is impact is observed.	k the impact and
	Submission: Complied as monitored the marine environmental	parameters during construction.	Date: 23/11/2024
	Risk Mitigation and Disaster	All the conditions stipulated in the earlier Clearance	

	Management	recommendations of Environment Management Plan, management Plan shall be strictly complied with.	Disaster
PPs Comp	Submission: Complied lied.		Date: 23/11/2024
29	WATER QUALITY MONITORING AND PRESERVATION	The ground water shall not be tapped within the CRZ PP to meet with the water requirement in any case.	Z areas by the
	Submission: Complied and complied with.		Date: 23/11/2024
30	WATER QUALITY MONITORING AND PRESERVATION	Necessary arrangements for the treatment of the effl wastes must be made and it must be ensured that they standards laid down by the competent authorities inclu Central or State Pollution Control Board and under the (Protection) Act, 1986.	conform to the
PPs Comp	Submission: Complied lied.		Date: 23/11/2024

General Conditions

Sr.No.	Condition Type	Condition Details	
1	MISCELLANEOUS	A copy of the environmental clearance letter shall also be on the website of the concerned State Pollution Control Bo EC letter shall also be displayed at the Regional Office, Di Industries center and Collector's Office/ Tehsildar's office days.	oard. The istrict
PPs Su Complie	abmission: Complied d.		Date: 3/11/2024
2	WATER QUALITY MONITORING AND PRESERVATION	Appropriate measures must be taken while undertaking of activities to avoid any likely degradation of water quality.	ligging
PPc Sı	ıbmission: Complied		Date:
	To digging is involved.	23	3/11/2024
Noted. N		Full support shall be extended to the officers of this Mini Regional Office at Bhopal by the project proponent during of the project for monitoring purposes by furnishing full de action plan including action taken reports in respect of mit measures and other environmental protection activities.	istry/ g inspection
Noted. N	No digging is involved.	Full support shall be extended to the officers of this Mini Regional Office at Bhopal by the project proponent during of the project for monitoring purposes by furnishing full de action plan including action taken reports in respect of mit measures and other environmental protection activities.	istry/ g inspection

PPs S Compli	Submission: Complied ed.		Date: 23/11/2024
5	MISCELLANEOUS	Ministry of Environment, Forest and Climate Cha competent authority may stipulate any additional co modify the existing ones, if necessary in the interest and the same shall be complied with.	onditions or
PPs S Noted.	Submission: Complied		Date: 23/11/2024
6	MISCELLANEOUS	The Ministry reserves the right to revoke this clear conditions stipulated are not complied with the satis Ministry.	
PPs S Noted.	Submission: Complied		Date: 23/11/2024
7	MISCELLANEOUS	In the event of a change in project profile or change implementation agency, a fresh reference shall be n Ministry of Environment, Forest and Climate Change	nade to the
PPs S Noted.	Submission: Complied		Date: 23/11/2024
8	MISCELLANEOUS	The project proponents shall inform the Regional the Ministry, the date of financial closure and final project by the concerned authorities and the date of development work.	approval of the
PPs S Compli	Submission: Complied ed.		Date: 23/11/2024
9	MISCELLANEOUS	A copy of the clearance letter shall be marked to c Panchayat/local NGO, if any, from whom any sugg representation has been made received while process	estion/
PPs S Compli	Submission: Complied ed.		Date: 23/11/2024
10	MISCELLANEOUS	These stipulations would be enforced among othe provisions of Water (Prevention and Control of Polithe Air (Prevention and Control of Pollution) Act 19 Environment (Protection) Act, 1986, the Public Lia Act, 1991 and EIA Notification 1994, including the rules made thereafter.	lution) Act 1974 981, the bility (Insurance
PPs S Noted.	Submission: Complied		Date: 23/11/2024
11	MISCELLANEOUS	All other statutory clearances such as the approva diesel from Chief Controller of Explosives, Fire De Aviation Department, Forest Conservation Act, 198 (Protection) Act, 1972 etc. shall be obtained, as app proponents from the respective competent authorities	partment, Civil 30 and Wildlife dicable by projec

PPs S Noted.	Submission: Complied		Date: 23/11/2024
12	Statutory compliance	The project proponent shall advertise in at least two Newspapers widely circulated in the region, one of w the vernacular language informing that the project has Environmental and CRZ Clearance and copies of clea available with the State Pollution Control Board and on the website of the Ministry of Environment, Fores Change at http://vvvvw.envfornic.in. The advertisement made within Seven days from the date of receipt of the letter and a copy of the same should be forwarded to office of this Ministry at Bhopal.	hich shall be in s been accorde arance letters as may also be sent and Climate ent should be ne Clearance
PPs S Compli	Submission: Complied ed.		Date: 23/11/2024
13	MISCELLANEOUS	This Clearance is subject to final order of the Hon't Court of India in the matter of Goa Foundation Vs Ur Writ Petition (Civil) No.460 of 2004 as may be applied project.	nion of India in
PPs S Noted.	Submission: Complied		Date: 23/11/2024
14	MISCELLANEOUS	Status of compliance to the various stipulated environmental safeguards will be uplo project proponent in its website.	
	Submission: Complied ed with.		Date: 23/11/2024
15	MISCELLANEOUS	Any appeal against this Clearance shall lie with the Tribunal, if preferred, within a period of 30 days as pased Section 16 of the National Green Tribunal Act, 2010.	rescribed unde
PPs S Noted.	Submission: Complied		Date: 23/11/2024
16	MISCELLANEOUS	A copy of the clearance letter shall be sent by the proconcerned Panchayat, Zilla Parisad/ Municipal Corport Local Body and the Local NGO, if any, from whom serepresentations, if any, were received while processing The clearance letter shall also be put on the website of by the proponent.	oration, Urban suggestions/ ag the proposal
PPs S Compli	Submission: Complied ed.		Date: 23/11/2024
17	MISCELLANEOUS	The proponent shall upload the status of compliance stipulated EC conditions, including results of monitor website and shall update the same periodically. It sha simultaneously be sent to the Regional Office of MoE respective Zonal Office of CPCB and the SPCB.	ed data on the

PPs S Compli	Submission: Complied led.		Date: 23/11/2024
18	Statutory compliance	The environmental statement for each financial year March in Form-V as is mandated to be submitted by proponent to the concerned State Pollution Control B prescribed under the Environment (Protection) Rules amended subsequently, shall also be put on the webs company along with the status of compliance of EC a shall also be sent to the respective Regional Offices a e-mail.	the project Board as 1, 1986, as ite of the conditions and
	Submission: Complied and Complied with.		Date: 23/11/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	All Annexures are attached as Additional Attachment.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Half Yearly Compliance Report 2024 01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Expansion of production capacity of SEZ refinery from 35.2 MMTPA to 41 MMTPA
Name of Entity / Corporate Office	RELIANCE INDUSTRIES LIMITED
Village(s)	N/A
District	IAMNIACAD

District JAMNAGAR

Proposal No.	IA/GJ/IND2/79902/2018
Plot / Survey / Khasra No.	N/A
State	GUJARAT
MoEF File No.	J-11011/351/2018-IA-II (I)

Category	Industrial Projects - 2
Sub-District	N/A
Entity's PAN	****5055K
Entity name as per PAN	RELIANCE INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office

RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	930	930
Total	930	930

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Crude Oil Processing Capacity	Others:MMTPA	N/A	41	41	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details	
1	WATER QUALITY MONITORING AND PRESERVATION	The company shall harvest rainwater from the roof to buildings to recharge ground water, and to utilize the st different industrial operations within the plant.	
Rainwate 1.56 mill		orm water ponds are developed having capacity around ter run-off is collected in the ponds. Two recharge pelt for ground water recharge	Date: 23/11/2024
2	Human Health Environment	Training shall be imparted to all employees on safety aspects of chemical handling. Pre-employment and rou medical examination for all employees shall be undertabasis. Training to all employees on handling of chemic imparted.	tine periodic iken on regula
A dedicatraining a every Ne operation	modules are developed which include ew Joiner has to undergo mandatory to as, safety management systems etc for	infrastructure is established and well-structured as HSEF procedures. As per the training procedure raining modules which includes safe handling; safe r hazardous chemicals. Occupational Health ups of all employees and records are maintained.	Date: 23/11/2024
3	Risk Mitigation and Disaster Management	The company shall comply with all the environmental measures and safeguards proposed in the documents sur Ministry. All the recommendations made in EIA/EMP environment management, risk mitigation measures and hearing shall be implemented.	bmitted to th in respect of
	ubmission: Complied and complied with.		Date: 23/11/2024
4	MISCELLANEOUS	The company shall undertake all measures for impro- economic conditions of the surrounding area. CSR acti undertaken by involving local villagers, administration stake holders. Also eco-developmental measures shall for overall improvement of the environment.	vities shall be and other
CSR acti	abmission: Complied ivities are planned as per the needs of ment and overall development of the a	the surrounding villagers aimed at socio-economic area.	Date: 23/11/2024
5	MISCELLANEOUS	A separate Environmental Management Cell equippe fledged laboratory facility shall be set up to carry out the Environmental Management and Monitoring functions	ne
	abmission: Complied the cell is established. Refer Departm	nental Organogram Annexure 14.	Date: 23/11/2024
6	MISCELLANEOUS	The company shall earmark sufficient funds towards and recurring cost per annum to implement the condition by MoEF&CC well as state government along with the implementation schedule for all the conditions stipulate funds so earmarked for Environmental Management/p control measures shall not be diverted to any other purpose.	ons stipulated ed herein. Th ollution
PPs Su	ıbmission: Complied		Date:

necessa Annexu		iture will be continued to be committed as outlined in	23/11/2024
7	MISCELLANEOUS	A copy of the clearance letter shall be sent by the proto concerned Panchayat, Zila Parishad/ Municipal Cor Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received whit the proposal.	poration, Urba
There w	Submission: Complied was no PH conducted and no suggeing of the application.	estions / representations were received during the	Date: 23/11/2024
8	Statutory compliance	The project proponent shall also submit six monthly status of compliance of stipulated EC conditions inclumonitored data (both hard copy as well as by E-mail) trespective Regional Office, Moef&CC, the respective CPCB & SPCB. A copy of EC and six monthly compliance report shall be posted on the website of the company.	ding results of to the zonal office o
	ubmission: Complied -monthly EC compliance and mor	nitoring report are being submitted.	Date: 23/11/2024
9	Statutory compliance	The Environmental Statement for each financial year March in Form-V as is mandated shall be submitted to SPCB as prescribed under the Environment (Protection amended subsequently, shall also be put on the websit company along with the status of compliance of EC conshall also be sent to respective Regional Office of Molmail.	the concerne n) Act, 1986, e of the onditions and
	ubmission: Complied omplied with.		Date: 23/11/2024
10	Statutory compliance	The project proponent shall inform the public that the been accorded EC by the ministry and copies of the cleare available with SPCB/Committee and may also be soft the Ministry at http://moef.nic.in. This shall be advesseven days from the date of issue of the clearance letter two local newspapers that are widely circulated in the which one shall be in the vernacular language of the local concerned and a copy of the same shall be forwarded to concerned Regional office of the Ministry.	earance letter seen at website ertised within or, at least in region of ocality
		as been submitted in the earlier Six-monthly report dated	Date: 23/11/2024
11	Statutory compliance	The project proponent shall strictly comply the sector conditions as mentioned in the Ministry's Office Mem 22-34/2019-IA.III dated 9th August, 2018. The grant of Environmental Clearance is further subject to compliant generic conditions as under:-	orandum No. of
	ubmission: Complied Pl. refer attachment Annexure BB	s.	Date: 23/11/2024

		permissions/recommendations/ NOCs prior to start construction/operation of the project, which inter alia i permission/approvals under the Forest (Conservation) Wildlife (Protection) Act, 1972; the Coastal Regulation Notification, 2019, as amended from time to time, and memoranda/circular issued by the Ministry of Environ and Climate Change from time to time, as applicable to	Act, 1980; the n Zone other office ment, Forest
There i		ne project as the increase in the processing capacity is the CTO is obtained from GPCB. No other approvals	Date: 23/11/2024
13	MISCELLANEOUS	The project authorities must strictly adhere to the stip by the State Pollution Control Board (SPCB), State Go and/or any other statutory authority.	
	Submission: Complied complied with. There is no change in the	e present conditions envisaged.	Date: 23/11/2024
14	MISCELLANEOUS	No further expansion or modifications in the plant shout without prior approval of the MoEF&CC. In case of alteration in the project proposal from those submitted Ministry for clearance, a fresh reference shall be made to assess the adequacy of conditions imposed and to accenvironmental pollution control measures required, if a	of deviation or to this to the Ministr ld additional
PPs S Noted.	Submission: Complied		Date: 23/11/2024
15	AIR QUALITY MONITORING AND PRESERVATION	The location of ambient air quality monitoring statio decided in consultation with SPCB and it shall be ensured one station each is installed in the upwind and downwist well as where maximum ground level concentrations a	red that at lea nd direction a
AAQN	Submission: Complied I stations have been setup based on the the NAAQS dtd.18th November 2009.	EIA findings of 2005. The monitoring parameters are Please Refer Annexure 5B.	Date: 23/11/2024
16	AIR QUALITY MONITORING AND PRESERVATION	The National Ambient Air Quality Emission Standar the Ministry vide G.S.R. No. 826(E) dated 16th Nover shall be complied with.	
	Submission: Complied complied with.		Date: 23/11/2024
17	Noise Monitoring & Prevention	The overall noise levels in and around the plant area well within the standards by providing noise control mincluding acoustic hoods, silencers, enclosures, etc. on noise generation. The ambient noise level shall confirm standards prescribed under Environmental (Protection) Rules, 1989 viz. 75 dBA (day time) 70 dBA (night time)	easures all sources of to the Act, 1986
Appropincludi area ar	ng acoustic hoods, silencers, enclosures e kept well within the standards. Regula	provided to identified sources of noise generation setc. The overall noise levels in and around the plant ar monitoring of the ambient noise levels is conducted the monitoring data are submitted to the authorities.	Date: 23/11/2024

Please refer Annexure 8-B.				
	Visit Remarks			
nst Site Visit Report Date:	N/A			
lditional Remarks:	All Annexures are attach	ned as Additional Attachment.		
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this do considered as conclusion on any action on the compliance of the project. This is strictly for the project reference purpose.				

Reliance Industries Limited, Jamnagar

List of Six-Monthly Monitoring Reports attached as Annexures.

Annexure No.	Description
1-A & 1-B	Monthly SO2 Emission Monitoring.
2-A, 2-B & 2C	Stack Emission Monitoring Report
3-В	Continuous Online Emission & Effluent Monitoring Reports
4-A & 4-B	Computerized Sulphur Recovery Unit Efficiency
5-A, 5-B & 5-C	Ambient Air Quality Monitoring Report
6	Mobile Van Monitoring
7-A, 7-B & 7C	Treated Wastewater Quality Results – Refinery ETP
8-A, 8-B & 8-C	Plant Peripheral Noise Monitoring Report
9	Marine Water Quality Results
10	Treated Wastewater Quality Results – MTF ETP
11	Groundwater Quality Monitoring Analysis Report.
12	Expenditure for Environmental Protection Measures
13	Sample LDAR Monitoring of plant
14	Organogram of Environment dept.
15	HSEF Policy

Note: In Annexures, "A" denotes reports for RIL, Refinery Division i.e. DTA refinery; "B" denotes reports for RIL, Unit of Reliance Jamnagar SEZ refinery and "C" denotes for RIL, J3 complex (i.e. PX4 complex & C2 complex).

Month: April '2024

(1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2884771	1.84	53113
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	473186	0	0
Imported LSWR	4099	0.23	9
Naphtha	51932	0.02	10
Intermediate Stock	3800443	0.11	4007
GRAND TOTAL	7214432	0.79	57139

SO2 Emission, MT/DAY

22.73

Product	Quantity	S%	S
	070505		
LPG+Propane+Butane	372505	0.000	0
HSD Export	429042	0.03	146
HSD Domestic	471946	0.00	11.0
Kero+ATF	319022	0.22	707
MS	76872	0.01	8
Naptha	340459	0.02	68
Coke	318284	6.8	21643
Sulphur	28738	100.0	28738
FO	51977	0.42	219
CBFS	26820	1.2	334
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	416650	1.18	4918
Sub Total	2852314		56798.0
Polypropylene+propylene	113677	No sulphur	0.00
Utility to SEZ	1249	No sulphur	0.00
P-Xylene	107085	No sulphur	0.00
O-Xylene	29419	No sulphur	0.00
Benzene	26210	No sulphur	0.00
Heavy Aromatics	32926	No sulphur	0.0
Loss	3932998	0	0.0
TOTAL	7095878		56798

(2) Outputs

Month: May '2024

(1) Inputs

Quantity S% S **Total Crude Oil Intake** 2926795 1.92 56267 Methanol/Nitrogen/Coke water/Natural Gas/Utility from SEZ 466350 0 0 6 0.23 Imported LSWR 2471 33759 0.02 6 Naphtha Intermediate Stock 3662435 0.08 3028 **GRAND TOTAL** 7091811 0.84 59307

21.84

5 1 (0 111	00/	
Product	Quantity	S%	S
LDC - Drange - Dutana	250077	0.000	0
LPG+Propane+Butane	350977	0.000	
HSD Export	344280	0.03	115
HSD Domestic	538125	0.00	12.2
Kero+ATF	304448	0.22	671
MS	35424	0.00	2
Naptha	397654	0.02	79
Coke	317548	4.8	15242
Sulphur	37046	100.0	37046
FO	54259	0.42	229
CBFS	37379	1.2	465
Sulphur as Sulphide in			6.70
ETP Influent			
Intermediate Stock	252244	2.02	5100
Sub Total	2669383		58968.5
Polypropylene+propylene	106245	No sulphur	0.00
Utility to SEZ	1300	No sulphur	0.00
P-Xylene	71802	No sulphur	0.00
O-Xylene	18874	No sulphur	0.00
Benzene	26220	No sulphur	0.00
Heavy Aromatics	43825	No sulphur	0.0
Loss	4034246	0	0.0
TOTAL	6971896		58968

SO2 Emission, MT/DAY

Month: June '2024

(1) Inputs

S Quantity S% **Total Crude Oil Intake** 2826479 1.96 55369 Methanol/Nitrogen/Coke water/Natural Gas/Utility from SEZ 401250 0 0 0.23 0 Imported LSWR 119 103390 0.01 Naphtha 11 Intermediate Stock 3456878 0.12 3998 **GRAND TOTAL** 6788116 0.87 59378

SO2 Emission, MT/DAY 21.82

Product	Quantity	S%	S
LPG+Propane+Butane	340252	0.000	0
HSD Export	360396	0.03	122
HSD Domestic	454458	0.00	11.9
Kero+ATF	260807	0.22	577
MS	77029	0.01	9
Naptha	351642	0.02	70
Coke	259481	5.0	12974
Sulphur	40360	100.0	40360
FO	49747	0.43	213
CBFS	33375	1.2	416
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	251245	1.71	4293
Sub Total	2478791		59050.7
Polypropylene+propylene	114215	No sulphur	0.00
Utility to SEZ	1259	No sulphur	0.00
P-Xylene	57357	No sulphur	0.00
O-Xylene	14826	No sulphur	0.00
Benzene	13416	No sulphur	0.00
Heavy Aromatics	57808	No sulphur	0.0
Loss	3918458	0	0.0
TOTAL	6656131		59051

Month: July '2024

(1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2976695	1.76	52506
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	480514	0	0
Imported LSWR	4551	0.23	10
Naphtha	55352	0.01	5
Intermediate Stock	3654936	0.05	1657
GRAND TOTAL	7172048	0.76	54178

SO2 Emission, MT/DAY

21.91

Product	Quantity	S%	S
			_
LPG+Propane+Butane	371946	0.000	0
HSD Export	499489	0.03	173
HSD Domestic	422382	0.00	12.3
Kero+ATF	304960	0.22	673
MS	39734	0.01	3
Naptha	343476	0.02	68
Coke	320799	6.3	20210
Sulphur	31042	100.0	31042
FO	26016	0.50	129
CBFS	28442	1.2	354
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	153836	0.76	1168
Sub Total	2542122		53838.7
Polypropylene+propylene	117042	No sulphur	0.00
Utility to SEZ	1283	No sulphur	0.00
P-Xylene	94186	No sulphur	0.00
O-Xylene	30085	No sulphur	0.00
Benzene	26110	No sulphur	0.00
Heavy Aromatics	49003	No sulphur	0.0
Loss	4167080	0	0.0
TOTAL	7026911		53839

Month: August '2024

(1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2921463	2.00	58413
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	453314	0	0
Imported LSWR	1432	0.23	3
Naphtha	96155	0.01	10
Intermediate Stock	3652441	0.15	5386
GRAND TOTAL	7124805	0.90	63813

SO2 Emission, MT/DAY 22.23

Product	Quantity	S%	S
I DC+Propaga+Putana	350501	0.000	0
LPG+Propane+Butane			_
HSD Export	478538	0.03	166
HSD Domestic	386930	0.00	9.2
Kero+ATF	275106	0.22	607
MS	40175	0.01	3
Naptha	356620	0.02	71
Coke	305539	6.4	19555
Sulphur	39179	100.0	39179
FO	73703	0.40	294
CBFS	32677	1.2	407
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	333901	0.95	3172
Sub Total	2672868		63468.0
Polypropylene+propylene	108012	No sulphur	0.00
Utility to SEZ	1279	No sulphur	0.00
P-Xylene	59212	No sulphur	0.00
O-Xylene	31181	No sulphur	0.00
Benzene	15459	No sulphur	0.00
Heavy Aromatics	61851	No sulphur	0.0
Loss	4036152	0	0.0
TOTAL	6986014		63468

Reliance Industries Ltd. (Refinery Division). Jamnagar

Monthly Sulphur Balance

(2) Outputs

Month: September '2024

(1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2936463	1.88	55162
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	363888	0	0
Imported LSWR	944	0.23	2
Naphtha	134675	0.01	11
Intermediate Stock	3695624	0.13	4836
GRAND TOTAL	7131594	0.84	60011

SO2 Emission, MT/DAY 21.55

Product Quantity S% S LPG+Propane+Butane 388213 0.000 0 **HSD Export** 592343 0.03 205 **HSD Domestic** 283114 0.00 10.4 Kero+ATF 305452 0.22 674 MS 69564 0.01 7 79 Naptha 395451 0.02 Coke 5.8 284244 16486 Sulphur 37615 100.0 37615 45078 FO 0.42 188 **CBFS** 46538 1.2 579 Sulphur as Sulphide in 6.70 ETP Influent Intermediate Stock 253916 3838 1.51 Sub Total 2701527 59687.6 109034 Polypropylene+propylene No sulphur 0.00 Utility to SEZ No sulphur 1286 0.00 P-Xylene 99017 No sulphur 0.00 O-Xylene No sulphur 27614 0.00 Benzene 26393 No sulphur 0.00 Heavy Aromatics 53848 0.0 No sulphur

3941927

6960647

0

Loss

TOTAL

0.0

59688

Month: April '2024

	INPUT	Quantity (MT)	% S	S (T)
ı	Consumption			
1	Total Crude	2513216.22	1.94	48781
2	Intermediate Stock	2728145.60	0.73	19937
3	Naphtha	0.00	0.00	0
	MPG/Methanol/ Water in Pet			
4	Coke/ Nitogen	29549.93	0.00	0
5	HSGO/VGO	25454.63	0.00	613
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	43823.13	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5340189.51		69330

Sulphur EmissionTonnes342SO2 EmissionTonnes/day22.77

Ш	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	445626.28	0.0009	3.87
2	High Speed Diesel (HSD)	1561987.27	0.0010	15.79
3	Motor Spirit (MS)+ Reformate	825990.89	0.0006	4.96
4	Alkylate	234473.54	0.0005	1.25
5	Naphtha	280464.84	0.0013	3.59
6	ATF	176794.58	0.00	114.92
	Petroleum Coke (Non-			
7	Calcined)	265083.25	5.68	15043.47
8	Un-Refined Sulphur	47074.99	100.0	47074.99
9	CBFS+VGO+VR+Gas oil	49264.29	1.36	672.44
10	Intermediate Stock	786134.22	0.82	6048.69
11	"S" as sulphide in Effluent			4.91
	Sub Total			
1	Polypropylene	92750.39	0.00	0.00
	Loss	574544.99	0.01	341.59
		37.131.100	5.51	3
	Grand Total	5340189.51		69330

Month: May '2024

	INPUT	Quantity (MT)	% S	S (T)
I	Consumption			
1	Total Crude	2649080.54	2.10	55646
2	Intermediate Stock	2513381.07	0.71	17857
3	Naphtha	0.00	0.00	0
	MPG/Methanol/ Water in Pet			
4	Coke/ Nitogen	18069.24	0.00	0
5	HSGO/VGO	102704.72	0.00	2305
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	44602.06	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5327837.63		75808

Sulphur Emission	Tonnes	<u>345</u>
SO2 Emission	Tonnes/day	<u>22.23</u>

II	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	460870.49	0.0009	3.92
2	High Speed Diesel (HSD)	1515784.46	0.0105	159.51
3	Motor Spirit (MS)+ Reformate	932551.28	0.0006	5.60
4	Alkylate	225435.46	0.0005	1.21
5	Naphtha	211529.54	0.0014	2.95
6	ATF	182247.54	0.00	118.46
	Petroleum Coke (Non-			
7	Calcined)	323941.46	6.80	22028.02
8	Un-Refined Sulphur	50483.21	100.0	50483.21
9	CBFS+VGO+VR+Gas oil	76406.16	2.36	1806.21
10	Intermediate Stock	656108.62	0.11	849.30
11	"S" as sulphide in Effluent			5.08
	Sub Total			
1	Polypropylene	98773.36	0.00	0.00
	Loss	593706.05	0.02	344.58
	2000	3337 33.00	0.02	011.00
	Grand Total	5327837.63		75808

Month: June '2024

	INPUT	Quantity (MT)	% S	S (T)
ı	Consumption			
1	Total Crude	2627524.82	2.05	53882
2	Intermediate Stock	2568803.48	0.47	12103
3	Naphtha	0.00	0.00	0
	MPG/Methanol/ Water in			
4	Pet Coke/ Nitogen	30402.80	0.00	0
5	HSGO/VGO	2273.52	0.00	57
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	29038.65	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5258043.26		66042

Sulphur Emission	Tonnes	<u>365</u>
SO2 Emission	Tonnes/day	<u>24.30</u>

II	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	500500.14	0.0008	3.82
2	High Speed Diesel (HSD)	1476040.04	0.0106	156.75
3	Motor Spirit (MS)+ Reformate	748077.51	0.0006	4.49
4	Alkylate	275576.52	0.0005	1.47
5	Naphtha	214160.16	0.0013	2.68
6	ATF	141362.82	0.00	91.89
	Petroleum Coke (Non-			
7	Calcined)	302211.70	6.84	20671.28
8	Un-Refined Sulphur	41562.04	100.0	41562.04
9	CBFS+VGO+VR+Gas oil	84425.89	1.45	1223.14
10	Intermediate Stock	830343.43	0.23	1955.33
11	"S" as sulphide in Effluent			4.91
	Sub Total			
1	Polypropylene	86327.18	0.00	0.00
	Loss	557455.85	0.03	364.57
	Grand Total	5258043.26		66042

Month: July '2024

	INPUT	Quantity (MT)	% S	S (T)
I	Consumption			
1	Total Crude	2503103.38	2.16	53951
2	Intermediate Stock	2833528.64	0.29	8245
3	Naphtha	14986.87	0.00	0
	MPG/Methanol/ Water in Pet			
4	Coke/ Nitogen	20194.90	0.00	0
5	HSGO/VGO	85339.00	0.00	1877
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	32638.41	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5489791.18		64074

Sulphur EmissionTonnes356SO2 EmissionTonnes/day22.94

II	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	525477.58	0.0009	4.67
2	High Speed Diesel (HSD)	1645620.62	0.0312	512.64
3	Motor Spirit (MS)+ Reformate	659351.89	0.0006	3.96
4	Alkylate	240413.47	0.0005	1.29
5	Naphtha	267934.96	0.0015	3.89
6	ATF	171411.72	0.00	111.42
	Petroleum Coke (Non-			
7	Calcined)	299627.23	6.44	19295.99
8	Un-Refined Sulphur	42014.67	100.0	42014.67
9	CBFS+VGO+VR+Gas oil	14904.98	1.23	183.77
10	Intermediate Stock	924111.21	0.13	1580.77
11	"S" as sulphide in Effluent			5.08
	Sub Total			
1	Polypropylene	90734.02	0.00	0.00
	Loss	608188.85	0.02	355.54
	Grand Total	5489791.18		64074

Month: August '2024

	INPUT	Quantity (MT)	% S	S (T)
I	Consumption			
1	Total Crude	2474056.37	2.29	56730
2	Intermediate Stock	2827161.45	0.38	10870
3	Naphtha	18387.18	0.00	0
	MPG/Methanol/ Water in Pet			
4	Coke/ Nitogen	16268.13	0.00	0
5	HSGO/VGO	44502.89	0.00	1157
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	21099.30	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5401475.30		68758

Sulphur Emission	Tonnes	<u>367</u>
SO2 Emission	Tonnes/day	<u>23.67</u>

II	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	477044.43	0.0008	3.88
2	High Speed Diesel (HSD)	1497465.41	0.0264	395.41
3	Motor Spirit (MS)+ Reformate	778385.03	0.0006	4.67
4	Alkylate	214059.94	0.0005	1.15
5	Naphtha	271329.55	0.0013	3.64
6	ATF	181570.33	0.00	118.02
	Petroleum Coke (Non-			
7	Calcined)	324086.61	6.45	20903.59
8	Un-Refined Sulphur	44953.01	100.0	44953.01
9	CBFS+VGO+VR+Gas oil	55562.45	1.34	741.95
10	Intermediate Stock	859005.94	0.11	1261.13
11	"S" as sulphide in Effluent			5.08
	Sub Total			
1	Polypropylene	101574.92	0.00	0.00
	Loss	596437.71	0.02	366.86
	Grand Total	5401475.30		68758

Month: September '2024

	INPUT	Quantity (MT)	% S	S (T)
I	Consumption			
1	Total Crude	2694996.08	2.19	58900
2	Intermediate Stock	2564255.76	0.42	10678
3	Naphtha	5209.00	0.00	0
	MPG/Methanol/ Water in			
4	Pet Coke/ Nitogen	27834.61	0.00	0
5	HSGO/VGO	141231.82	0.00	3560
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	19103.66	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5452630.93		73138

Sulphur EmissionTonnes372SO2 EmissionTonnes/day24.79

II	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	405452.51	0.0007	2.98
2	High Speed Diesel (HSD)	1738980.96	0.0197	342.92
3	Motor Spirit (MS)+ Reformate	787636.23	0.0007	5.56
4	Alkylate	230942.07	0.0005	1.24
5	Naphtha	267848.63	0.0013	3.51
6	ATF	189604.04	0.00	123.24
	Petroleum Coke (Non-			
7	Calcined)	305533.81	6.90	21081.83
8	Un-Refined Sulphur	48400.34	100.0	48400.34
9	CBFS+VGO+VR+Gas oil	3921.56	1.30	51.00
10	Intermediate Stock	888054.94	0.28	2748.67
11	"S" as sulphide in Effluent			4.91
	Sub Total			
1	Polypropylene	93585.35	0.00	0.00
	Loss	492670.51	0.03	371.83
	Grand Total	5452630.93		73138

Reliance Industries Limited (Refinery Division, Jamnagar) Stack Emission Monitoring Results (1st Apr '24 to 30th Sept '24)

Sr.	Eumana	Canala No	S	O2 (mg/Nn	13)	NO)x (mg/N	m3)	PM (mg/Nm3)			
No.	Furnace	Stack No.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	
I	Stacks Involvin	g Fuel Burning										
A.	СРР											
1	HRSG-1	MS-EE 951-201	10.2	11.2	10.7	42.0	46.0	44.5	1.0	1.1	1.1	
2	HRSG-2	MS-EE 951-202	10.6	11.4	11.0	42.0	46.0	43.7	1.0	1.1	1.1	
3	HRSG-3	MS-EE 951-203	11.2	13.4	12.6	42.0	48.0	44.8	1.1	1.3	1.2	
4	HRSG-4	MM-RR 771-201	11.6	13.6	12.7	43.0	49.0	46.2	1.0	1.4	1.2	
5	HRSG-5	MM-RR 771-202	10.9	12.8	12.1	46.0	48.0	47.0	1.2	1.4	1.3	
6	HRSG-6	MM-RR 771-203	10.2	11.4	10.7	41.0	45.0	42.7	1.0	1.2	1.1	
7	HRSG-7	MM-RR 771-204	11.2	11.6	11.4	41.0	44.0	42.5	1.0	1.1	1.1	
8	HRSG-8	MS-EE 951-204	11.8	12.8	12.3	45.0	48.0	46.5	1.0	1.3	1.1	
9	HRSG-9	MS-EE G-201	10.4	13.8	12.2	42.0	46.0	43.8	1.0	1.2	1.1	
10	Aux- Blr -1*	MB-RU 771- B010	12.6	238.0	89.0	48.0	68.0	61.8	1.1	8.5	3.8	
11	Aux- Blr -2*	MB-RU 771- B011	12.6	176.0	45.9	54.0	66.0	61.8	1.2	7.2	2.5	
12	Aux- Blr -3*	MB-EE 951-B010	12.2	166.0	38.6	56.0	67.0	62.8	1.1	6.2	2.1	
13	Aux- Blr -4*	MB-EE 951-B011	12.7	193.0	72.5	55.0	68.0	63.3	1.2	5.9	2.8	
14	Aux- Blr -5*	MB-EE 952-B010	11.6	181.3	67.1	57.0	91.0	67.0	1.1	6.7	3.0	
15	Aux- Blr -6*	MB-EE 952-B011	11.6	181.0	92.9	51.0	66.0	61.8	1.0	8.5	4.1	
B.	Crude Complex											
1	CDU-1-FO1*	MB-RD311-F01	170.0	190.6	182.0	44.0	49.0	46.2	5.2	7.2	6.3	
2	CDU-1 -F51*	MB-RD311-F51	161.0	178.0	172.5	44.0	47.0	45.8	4.6	7.2	5.7	
3	VDU-1	MB-RD311-F02	10.2	12.2	11.0	34.0	37.0	35.7	1.0	1.1	1.1	
4	CDU-2-FO1*	MB-RD312-F01	170.0	198.0	184.7	45.0	51.0	47.8	4.8	7.2	6.3	
5	CDU-2 -F51*	MB-RD312-F51	12.6	185.0	149.2	45.0	48.0	46.5	1.2	7.4	5.2	
6	VDU-2	MB-RD312-F02	10.2	12.4	10.9	33.0	36.0	34.5	1.0	1.1	1.1	
7	DHT-1	MB-RH351-F01	10.8	11.8	11.2	34.0	36.0	35.0	1.0	1.1	1.1	
8	DHT-2	MB-RH352-F01	10.4	12.2	11.3	33.0	36.0	34.8	1.0	1.1	1.1	
9	VGO HT- 1	MB-RH361-F02	10.2	10.6	10.5	33.0	37.0	34.8	1.0	1.1	1.1	
10	VGO HT- 2	MB-RH362-F02	10.8	11.6	11.2	33.0	36.0	34.7	1.0	1.1	1.0	
11	LNHT	MB-RH471-F01	10.2	11.2	10.7	32.0	35.0	33.3	1.0	1.1	1.1	
12	Hydrogen-1	MB-RH521-SO1				Not i	in Operat	ion				
13	Hydrogen-2	MB-RH522-SO1				Not i	in Operat	ion				
14	Hydrogen-3	MB-RH523-SO1				Not i	in Operat	ion				
15	KHT	MB-RH-365-F02	10.6	12.2	11.3	33.0	36.0	34.7	1.0	1.2	1.1	
16	CNHT	MB-RH-222-F01	10.9	11.8	11.4	32.0	35.0	34.0	1.0	1.2	1.1	
C.	Aromatics											
1	Platforming	MB-AY231-F01	10.8	12.6	11.8	35.0	43.5	38.3	1.0	1.1	1.1	
2	HNHT	MB-AY221-F01	10.8	11.9	11.5	34.0	39.0	36.7	1.0	1.1	1.1	
3	Xylene -1	MB-AY241-F01				Not i	in Operat	ion			•	
4	Xylene -2	MB-AY242-F01	12.2	85.6	30.7	39.0	48.0	43.0	1.0	4.1	1.7	

Six Monthly EC Compliance

Reliance Industries Limited (Refinery Division, Jamnagar) Stack Emission Monitoring Results (1st Apr '24 to 30th Sept '24)

Sr.	T.	C. IN	S	O2 (mg/Nn	13)	NO)x (mg/N	m3)	PM (mg/Nm3)			
No.	Furnace	Stack No.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	
5	Xylene -3	MB-AY243-F01	10.8	74.6	22.4	38.0	52.0	42.3	1.0	4.4	1.7	
6	O-Xylene	MB-AY251- F01A	11.6	13.4	12.6	35.0	40.0	37.7	1.0	1.2	1.1	
7	Isomar 1	MB-AY271-F01				Not i	n Operat	ion				
8	Isomar 2	MB-AY272-F01	10.2	12.2	11.0	33.0	42.0	37.6	1.0	1.2	1.1	
9	Isomar 3	MB-AY273-F01	10.4	11.8	11.0	34.0	39.0	36.8	1.0	1.1	1.0	
10	Tatoray-1	MB-AY281-F01				Not i	n Operat	ion				
11	Tatoray-2	MB-AY281-F51	11.6	12.8	12.2	35.0	40.0	37.4	ND	ND	ND	
D.	Coker											
1	Coker-1	MB-RK371-F01	10.8	12.8	11.8	34.0	39.0	37.0	1.0	1.2	1.1	
2	Coker-2	MB-RK371-F02	10.6	12.6	11.5	34.0	38.0	36.2	1.0	1.1	1.1	
3	Coker-3	MB-RK371-F03	10.8	12.6	11.8	35.0	39.0	37.0	1.0	1.2	1.1	
4	Coker-4	MB-RK371-F04	10.9	11.4	11.1	33.0	37.0	35.0	1.0	1.2	1.1	
5	Coker-5	MB-RK371-F07	11.2	12.4	11.9	34.0	39.0	36.5	1.0	1.2	1.1	
II	Stacks Involvin	g Process Emission										
A.	FCC Complex											
1	FCCC-N	MB-RF412-S01	14.7	18.0	16.1	37.0	44.0	39.2	6.5	8.1	7.3	
2	FCCC-S	MB-RF412-S51	14.5	16.2	15.2	35.0	40.0	37.2	6.4	7.8	7.0	
B.	Sulphur Compl	lex										
1	SRU-1	MB-RH451-SO1	1137	2008	1356.4	54.0	57.0	55.2	NA	NA	NA	
2	SRU-2	MB-RH452-SO1	1385	2265	1895.2	55.0	58.0	56.6	NA	NA	NA	
3	SRU-3	MB-RH453-SO1	1014	1650	1354.8	53.0	56.0	54.2	NA	NA	NA	
C.	ETP-Incinerate	or										
1	Incinerator	_	22.8	26.5	24.8	33.0	38.0	35.5	7.8	8.9	8.2	
Ш	Stacks Involvin	g Material Handling										
A.	SGU											
1	SGU-1	MF-RH-465-Y-01	NA	NA	NA	NA	NA	NA	8.6	9.4	9.1	
2	SGU-2	MF-RH-465-Y-02	NA	NA	NA	NA	NA	NA	8.4	9.3	8.9	

Note: * Furnaces / Heaters were on dual (liquid+gas) firing & others were on gas firing during sampling. NA: Not applicable; BDL -Below Detectable Level

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ) Jamnagar Stack Emission Monitoring Results (1st Oct '2023 to 31st Mar '2024)

Sr.	Stack Attached	Stack No.	s	O2 mg/Nr	n3	N	OX mg/Nı	n3	P	M mg/Nm	3	
No.	to	Stack 110.	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	
I	Stacks Involving	Fuel Burning	•									
A.	СРР											
1	HRSG-1	MB-BBZ9H1-B01	10.6	12.4	11.4	42.0	46.0	43.8	1.0	1.2	1.1	
2	HRSG-2	MB-BBZ9H2-B01	10.8	14.8	13.1	44.0	46.0	45.0	1.0	1.2	1.1	
3	HRSG-3	MB-BBZ9H3-B01	10.4	13.2	11.9	41.0	47.0	44.2	1.0	1.3	1.2	
4	HRSG-4	MB-BBZ9H4-B01	10.2	13.4	11.6	41.0	48.0	45.0	1.0	1.2	1.1	
5	HRSG-5	MB-BBZ9H5-B01	11.6	12.8	12.2	42.0	49.0	45.6	1.0	1.3	1.2	
6	HRSG-6	MB-BBZ9H6-B01	10.7	13.2	12.1	40.0	47.0	44.6	1.0	1.2	1.1	
7	Aux- Boiler-1*	MB-BBZ9B1-B01	12.4	362.6	155.2	59.0	68.0	65.4	1.1	16.8	9.1	
8	Aux- Boiler-2*	MB-BBZ9B2-B01	11.9	202.0	104.8	54.0	66.0	61.8	1.0	13.2	7.1	
9	Aux- Boiler-3*	MB-BBZ9B3-B01	10.2	159.0	60.6	62.0	64.0	63.0	1.1	8.2	3.5	
10	Aux- Boiler-4*	MB-BBZ9B4-B01	13.4	13.8	13.6	56.0	68.0	60.3	1.2	1.3	1.2	
B.	Crude Complex											
1	CDU-1-FO1*	MB-RDZ311-F01	11.6	162.4	37.5	41.0	44.0	42.3	1.1	5.8	2.0	
2	CDU-1-F51*	MB-RDZ311-F51	11.8	158.6	58.3	39.0	44.0	42.2	1.2	7.6	3.1	
3	VDU-1	MB-RDZ311-F02	10.1	10.6	10.3	34.0	37.0	35.7	1.0	1.1	1.1	
4	CDU-2-FO1*	MB-RDZ312-F01	11.2	150.7	35.2	39.0	43.0	40.7	1.1	8.2	2.4	
5	CDU-2-F51*	MB-RDZ312-F51	11.8	138.5	33.5	38.0	43.0	41.3	1.1	7.4	2.3	
6	VDU-2	MB-RDZ312-F02	10.2	10.8	10.6	33.0	37.0	34.7	1.0	1.1	1.0	
7	VGOHT- 1 M	1B-RHZ361-F01/F02	10.4	11.4	10.9	33.0	36.0	34.8	1.0	1.2	1.1	
8	VGOHT- 1	MB-RHZ361-F03	10.9	12.2	11.5	34.0	37.0	35.6	1.0	1.2	1.1	
9	VGOHT- 2 M	1B-RHZ362-F01/F02	10.5	11.8	11.2	32.0	35.0	33.7	1.0	1.1	1.1	
10	VGOHT- 2	MB-RHZ362-F03	10.2	11.6	10.9	33.0	37.0	35.2	1.0	1.2	1.1	
C.	Hydrogen & Mei	ox Complex										
1	Hydrogen-4	MB-RHZ524-S01				No	t in Opera	tion				
2	Hydrogen-5	MB-RHZ523-S01				No	t in Opera	tion				
3	Hydrogen-6	MB-RHZ522-S01				No	t in Opera	tion				
4	Hydrogen-7	MB-RHZ521-S01				No	t in Opera	tion				
5	Hydrogen-8	MB-RHZ525-S01				No	t in Opera	tion				
D.	Coker											
1	Coker-1	MB-RKZ371-F01	10.6	12.6	11.5	34.0	38.0	36.0	1.0	1.2	1.1	
2	Coker-2	MB-RKZ371-F02	10.8	12.6	11.5	34.0	37.0	35.3	1.0	1.2	1.1	
3	Coker-3	MB-RKZ371-F03	10.8	13.2	11.8	33.0	38.0	35.3	1.0	1.1	1.1	
4	Coker-4	MB-RKZ371-F04	10.6	12.1	11.1	35.0	37.0	36.0	1.1 1.1		1.1	
5	Coker-5	MB-RKZ371-F07	10.2	12.6	10.9	32.0	34.0	33.2	1.0 1.0 1.			
E.	Clean Fuel Proje	ct										
1	DHDS-1	10.8	12.1	11.5	34.0	39.0	36.2	1.0	1.2	1.1		
2	DHDS-1	MBRHZ355-F01B	10.6	12.4	11.2	33.0	38.0	35.0	1.0	1.2	1.1	
3	DHDS-2	MBRHZ358-F01A	11.2	12.4	11.6	32.0	36.0	34.5	1.0	1.2	1.1	

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ) Jamnagar Stack Emission Monitoring Results (1st Oct '2023 to 31st Mar '2024)

Sr.	Stack Attache	ed Stack No.	S	O2 mg/Nr	m3	N	OX mg/Nr	m3	PM mg/Nm3			
No.	to	Stack 110.	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	
4	DHDS-2	MBRHZ358-F01B	10.8	12.8	11.7	33.0	39.0	34.8	1.0	1.2	1.1	
5	DHDS-2	MBRHZ358-F02	11.2	12.4	11.9	32.0	37.0	34.2	1.0	1.3	1.2	
6	Common Facilities	MBRHZ357-F01	10.4	11.4	10.9	32.0	36.0	34.5	1.0	1.2	1.1	
7	LCOHC	MBRHZ354-F01	10.2	11.2	10.5	32.0	35.0	33.3	1.0	1.1	1.1	
F.	Aromatics											
1	Platformer	MB-AYZ231-F02	11.8	12.6	12.2	34.0	37.0	35.3	1.0	1.2	1.1	
2	Platformer	MB-AYZ231-F01/F03	11.2	12.6	12.0	32.0	38.0	34.7	1.0	1.2	1.2	
3	Platformer	MB-AYZ231- F01A/F03A	10.6	12.8	11.9	34.0	36.0	35.2	1.0	1.2	1.1	
4	HNUU	MB-AYZ221-F01/F02	10.2	11.8	10.8	32.0	34.0	33.2	1.0	1.2	1.1	
G.	Alkylation											
1	SAR	MB-RFZ430-F41	10.8	12.2	11.3	34.0	39.0	35.8	1.0	11.0	6.0	
II	Stacks Involvi	ing Process Emission										
A.	FCC Complex	ζ										
1	FCC-N	MB-RFZ412-S01	13.8	16.3	15.2	37.0	46.0	39.5	5.8	7.2	6.4	
2	FCC-S	MB-RFZ412-S51	14.2	16.7	15.2	35.0	44.0	37.8	5.6	6.4	6.0	
B.	Sulphur Comp	plex										
1	SRU-1	MB-RHZ451-S01	583.0	640.0	605.2	52.0	57.0	54.8	NA	NA	NA	
2	SRU-2	MB-RHZ452-S01	493.0	709.0	546.7	50.0	59.0	53.5	NA	NA	NA	
3	SRU-3	MB-RHZ453-S01	485.0	611.0	520.6	51.0	57.0	53.8	NA	NA	NA	
C.	Alkylation											
1	SAR	MB-RFZ430-S01	175.0	236.0	194.3	NA	NA	NA	NA	NA	NA	
III	Stacks Involving Material Handling											
A.	Sulphur Pestil	llation Unit										
1	SPU-1	MA-RHZ465-F01A/B	NA	NA	NA	NA	NA	NA	8.2	8.7	8.2	
2	SPU-2	MA-RHZ465-F02A/B	NA	NA	NA	NA	NA	NA	8.1	9.2	8.1	

Note: 1. *Furnaces / Heaters were on duel (liquid + gas) firing and others were on gas firing during sampling.

^{2.} ND: Not Detectable. 3. NA – Not Applicable

Reliance Industries Ltd. Jamnagar STACK EMISSION MONITORING REPORT (1st Oct '2023 to 31st Mar '2024)

Sr.	Stack		Stack No.	so	02 (mg/Nr	n3)	NC	X (mg/N	m3)	P	M (mg/Nn	13)
No.	Attached	to		MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG
	PX-4 Complex	(
1	Xylene Recove Column Reboil		MB-AYZ241- F000001A/B	10.8	12.4	11.42	33.0	36.0	34.50	1.0	1.1	1.1
2	Isomer Charge	Heater	MB-AYZ271- F000001A/B	10.6	12.4	11.60	33.0	38.0	35.67	1.0	1.2	1.0
3	TA Charge Hea	ater	MB-AYZ281- F000001	10.6	12.6	11.70	32.0	37.0	33.83	ND	ND	ND
4	TA Stabilizer Heater		MB-AYZ281- F000002	10.8	13.2	11.70	33.0	38.0	35.67	ND	ND	ND
5	Toluene Colum Reboiler	ın	MB-AYZ281- F000003	10.6	12.2	11.25	35	38	36.33	1.0	1.2	1.0
6	HA Column Re	eboiler	MB-AYZ281- F000004	9.8	12.4	10.80	32.0	36.0	0.00	ND	ND	ND
A	C2-COMPLE	X "CPI	P"									
1	HRSG - 1	MB-	-BBC9H1-B-001	11.6	12.8	12.2	41.0	45.0	43.6	1.1	1.1	1.5
2	HRSG - 2	MB-	-BBC9H2-B-001	11.2	13.1	12.4	41.0	46.0	44.0	1.0	1.0	1.4
3	AUX B'ER - 1	MB-	-BBC9B1-B-001	10.2	13.3	12.4	52.0	65.0	58.8	1.2	1.0	1.4
4	AUX B'ER - 2	MB-	-BBC9B2-B-001	9.8	13.7	12.2	49.0	66.0	59.4	1.1	1.0	1.3
В	C2-COMPLE	X "ROC	GC"									
1	ROGC-1	MB-	-F010001	10.8	12.5	11.7	35.0	40.0	37.6	1.0	1.2	1.1
2	ROGC-2	MB-	-F010002	10.2	12.4	11.6	36.0	43.0	39.8	1.0	1.1	1.0
3	ROGC-3	MB-	-F010003	11.6	12.6	12.0	32.0	38.0	35.2	1.0	1.3	1.2
4	ROGC-4	MB-	-F010004	12.4	13.5	13.1	34.0	41.0	38.0	1.1	1.2	1.2
5	ROGC-5	MB-	-F010005	10.2	11.9	11.2	33.0	39.0	35.4	1.0	1.1	1.0
6	ROGC-6	MB-	-F010006	11.7	12.5	12.1	32.0	38.0	36.0	1.2	1.2	1.2
7	ROGC- HEATER-01	MB-	-F160001	11.0	12.2	11.8	31.0	36.0	34.0	1.0	1.2	1.1
8	ROGC- HEATER-02	MB	-F160002	11.0	11.6	11.3	33.0	33.0	33.0	1.0	1.2	1.1
C.	СРР											
	HRSG-10			12.5	14.2	13.4	42.0	46.0	43.7	1.1	1.3	1.2
	HRSG-11	MB-BB	D9H2-B-001	11.6	15.2	13.3	40.0	48.0	44.8	1.0	1.2	1.1
	HRSG-12	MB-BB	D9H3-B-001	10.2	14.6	12.3	40.0	46.0	42.3	1.0	1.2	1.1
	HRSG-13	MB-BB	D9H4-B-001	11.6	14.6	12.6	41.0	48.0	45.0	1.0	1.2	1.1

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ) Jamnagar Continuous Online Stack Emission & Effluent Monitoring Results

1. Continuous Online Stack Emission Monitoring Results (1st Apr '2024 to 30th Sept '2024)

Sr.	Stack	Stack No.	S	O2 (mg/N	(m3)	NO	Ox (mg/Nn	13)	P	M (mg/Nm	3)	CO (mg/Nm3)		
No.	Attached to	Stack 110.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
I	Stacks Involvin	ng Fuel Burning												
A.	СРР													
1	HRSG-1	MB-BBZ9H1-B01	3	97	5	13	48	25	0.3	6.4	0.5	5	17	10
2	HRSG-2	MB-BBZ9H2-B01	25	127	45	13	148	27	4.0	9.3	4.4	5	133	38
3	HRSG-3	MB-BBZ9H3-B01	3	66	42	13	248	98	0.3	7.4	0.8	5	90	22
4	HRSG-4	MB-BBZ9H4-B01	3	106	8	13	225	25	0.3	5.7	0.5	5	82	41
5	HRSG-5	MB-BBZ9H5-B01	3	514	28	13	300	124	0.5	7.5	0.8	5	134	16
6	HRSG-6	MB-BBZ9H6-B01	3	127	8	13	254	74	0.3	7.5	0.5	5	104	28
7	Aux- Boiler-1	MB-BBZ9B1-B01	3	128	85	15	53	35	0.5	7.5	5.0	7	23	15
8	Aux- Boiler-2	MB-BBZ9B2-B01	3	128	85	17	53	35	0.9	45.0	5.7	8	23	15
9	Aux- Boiler-3	MB-BBZ9B3-B01	3	127	72	14	53	33	0.3	40.7	4.2	5	23	14
10	Aux- Boiler-4	MB-BBZ9B4-B01	4	128	85	16	53	35	0.5	44.5	5.0	6	23	15
B.	Crude Comple	x						,					,	
1	CDU-1-FO1*	MB-RDZ311-F01	3	730	72	13	253	45	0.4	24.9	2.4	5	106	10
2	CDU-1-F51*	MB-RDZ311-F51	3	391	27	13	264	26	0.3	24.0	6.4	5	109	11
3	VDU-1	MB-RDZ311-F02	3	45	10	13	222	41	0.5	4.5	0.6	5	90	10
4	CDU-2-FO1*	MB-RDZ312-F01	3	378	28	13	244	27	0.3	25.2	5.0	5	109	14
5	CDU-2-F51*	MB-RDZ312-F51	3	127	22	13	227	24	0.3	39.3	4.0	5	90	9
6	VDU-2	MB-RDZ312-F02	3	45	7	13	221	25	0.3	4.5	0.5	5	84	10
7	VGOHT- 1	MB-RHZ361-F01/F02	5	45	12	25	221	37	0.9	4.5	2.1	10	88	15

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ) Jamnagar Continuous Online Stack Emission & Effluent Monitoring Results

1. Continuous Online Stack Emission Monitoring Results (1st Apr '2024 to 30th Sept '2024)

Sr.	Stack	Stack No.	S	O2 (mg/N	lm3)	N	Ox (mg/Nn	n3)	P	M (mg/Nm	13)		CO (mg/Nn	13)
No.	Attached to	Stack No.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
8	VGOHT- 2	MB-RHZ362-F01/F02	5	45	19	25	222	38	0.5	2.5	1.7	10	90	16
C.	Hydrogen & M	Ierox Complex	•											
1	Hydrogen-4	MB-RHZ524-S01						Not	in Operatio	n				
2	Hydrogen-5	MB-RHZ523-S01						Not	in Operatio	n				
3	Hydrogen-6	MB-RHZ522-S01						Not	in Operatio	n				
4	Hydrogen-7	MB-RHZ521-S01						Not	in Operatio	n				
5	Hydrogen-8	MB-RHZ525-S01						Not	in Operatio	n				
D.	Coker	1	T											
1	Coker-1	MB-RKZ371-F01	5	45	19	25	210	32	0.5	4.5	1.4	10	90	15
2	Coker-2	MB-RKZ371-F02	5	45	33	25	225	36	0.5	1.0	0.8	10	90	16
3	Coker-3	MB-RKZ371-F03	5	45	21	25	209	36	0.5	2.7	0.7	10	90	16
4	Coker-4	MB-RKZ371-F04	5	45	11	25	205	49	0.5	4.5	0.7	10	90	24
E.	Clean Fuel Pro	ject	•											
1	DHDS-1	MBRHZ355-F01A	5	45	21	25	219	38	0.5	1.0	0.8	10	90	22
2	DHDS-1	MBRHZ355-F01B	5	43	8	25	87	38	0.5	4.5	0.8	10	90	27
3	DHDS-2	MBRHZ358-F01A	5	45	20	25	215	38	0.5	1.0	0.8	10	90	42
4	DHDS-2	MBRHZ358-F01B	5	44	10	25	215	36	0.5	4.4	0.7	10	90	42
5	DHDS-2	MBRHZ358-F02	5	45	24	25	225	37	0.5	4.5	0.8	10	90	38
6	Common Facilities MBRHZ357-F01		5	45	42	25	224	37	1.0	4.5	1.4	10	90	16
7	LCOHC MBRHZ354-F01		5	45	25	25	218	37	0.7	4.5	2.2	10	88	16
F.	Aromatics								_					
1	Platformer	MB-AYZ231-F02	5	45	33	25	223	37	0.5	4.5	0.8	10	90	15

01st Apr'24 To 30th Sept'24.

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ) Jamnagar Continuous Online Stack Emission & Effluent Monitoring Results

1. Continuous Online Stack Emission Monitoring Results (1st Apr '2024 to 30th Sept '2024)

Sr.	Stack	Stack No.	se	O2 (mg/N	(m3)	N	Ox (mg/Nn	13)	P	M (mg/Nm	13)		CO (mg/Nn	13)
No.	Attached to	Stack 1 (o)	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
2	Platformer	MB-AYZ231-F01/F03	5	45	21	25	225	43	0.5	4.5	0.8	10	89	15
3	HNUU	MB-AYZ221-F01/F02	6	45	27	25	222	37	0.5	4.5	1.6	10	90	16
G.	Alkylation													
1	SAR	MB-RFZ430-F41	5	45	22	25	216	47	0.5	4.5	0.8	10	90	15
II	Stacks Involvin	ng Process Emission												
A.	FCC Complex												T	
1	FCC-N	MB-RFZ412-S01	50	450	191	35	313	50	6	45	13	30	270	43
2	FCC-S	MB-RFZ412-S51	50	450	161	35	200	52	7	45	21	30	270	49
B.	Sulphur Comp	lex												
1	SRU-1	MB-RHZ451-S01	30	270	62	25	216	61		NA		10	89	15
2	SRU-2	MB-RHZ452-S01	30	270	252	25	220	38		NA		10	58	16
3	SRU-3	MB-RHZ453-S01	30	258	45	25	118	61		NA		10	90	18
C.	Alkylation								•					
1	SAR	MB-RFZ430-S01	95	855	225					Not Applic	able			

2. Continuous Online Effluent Monitoring Results (1st Apr '2024 to 30th Sept '2024):

Parameters	Units	MIN	MAX	AVG
Flow	Cum/hr	0	475	190
рН	-	6.6	8.2	7.4
TSS	ppm	2	18	8
BOD	ppm	2	12	6.3
COD	ppm	12	115	60

)1-Apr-24			0.1.1.0	11-Apr-24			0.1.1.0
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
454	MT/day	ppm	Efficiency	451	MT/day	ppm	Efficiency
451	436.51	1072.0	99.60%	451	500.04	S/D	00.670/
452	468.47	910.9	99.65%	452	509.31	885.9	99.67%
453	452.32	738.1	99.70%	453	497.04	555.8	99.75%
	1357.30	AVG >>	99.65%		1006.35	AVG >>	99.71%
2-Apr-24				12-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	389.14	903.4	99.67%	451		S/D	_
452	469.40	807.7	99.69%	452	535.30	914.1	99.66%
453	468.84	622.4	99.75%	453	528.85	586.6	99.74%
	1327.38	AVG >>	99.70%		1064.15	AVG >>	99.70%
3-Apr-24				13-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451		S/D		451		S/D	•
452	466.62	870.4	99.66%	452	536.30	926.6	99.65%
453	448.31	643.3	99.74%	453	529.13	602.5	99.73%
	914.94	AVG >>	99.70%		1065.43	AVG >>	99.69%
4-Apr-24				14-4			
Unit	CBA production	SO2 emission	Sulphur Recovery	14-Apr-24 Unit	CBA production	SO2 emission	Sulphur Recove
Jille	MT/day	ppm	Efficiency	Jille	MT/day	ppm	Efficiency
451	,	S/D	-	451	,	S/D	· ·
452	507.05	831.9	99.76%	452	542.78	936.1	99.66%
453	461.24	752.8	99.64%	453	561.92	615.5	99.74%
	968.29	AVG >>	99.70%		1104.70	AVG >>	99.70%
5-Apr-24	CBA production	SO2 emission	Sulphur Recovery	15-Apr-24		SO2 emission	Sulphur Recove
Unit	MT/day	ppm	Efficiency	Unit	CBA production MT/day		Efficiency
451	M1/uay	S/D	Zinache)	452	M1/uay	ppm S/D	Lindency
452	497.94	807.7	99.76%	453	532.68	1000.8	99.61%
453	478.03	1100.9	99.60%	453	549.35	681.3	99.71%
433	975.97	AVG >>	99.68%	455	1082.03	AVG >>	99.66%
06-Apr-24	004						
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
451	MT/day	ppm	Linciency				
451	F20.46	S/D	00.770/				
452 453	520.46	804.0	99.77% 99.79%				
453	500.95 1021.41	527.3 AVG >>	99.78%				
	1021.41	AVG >>	99.7070				
7-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	504	S/D	00.77				
452	534.54	809.6	99.76%				
453	494.44 1028.98	527.6 AVG >>	99.78% 99.77%				
	1020.90	AVG //	33.1170				
8-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
		S/D					
451							
452	516.29	866.1	99.71%				
	534.95	746.7	99.76%				
452							
452 453 9-Apr-24	534.95 1051.24	746.7 AVG >>	99.76% 99.74%				
452 453	534.95 1051.24 CBA production	746.7 AVG >>	99.76% 99.74% Sulphur Recovery				
452 453 99-Apr-24 Unit	534.95 1051.24	746.7 AVG >> SO2 emission ppm	99.76% 99.74%				
452 453 99-Apr-24 Unit	534.95 1051.24 CBA production MT/day	746.7 AVG >> SO2 emission ppm S/D	99.76% 99.74% Sulphur Recovery Efficiency				
452 453 19-Apr-24 Unit 451 452	534.95 1051.24 CBA production MT/day	746.7 AVG >> SO2 emission ppm S/D 884.5	99.76% 99.74% Sulphur Recovery Efficiency				
452 453 99-Apr-24 Unit	534.95 1051.24 CBA production MT/day 530.22 536.54	746.7 AVG >> SO2 emission ppm S/D 884.5 779.9	99.76% 99.74% Sulphur Recovery Efficiency 99.71% 99.73%				
452 453 99-Apr-24 Unit 451 452	534.95 1051.24 CBA production MT/day	746.7 AVG >> SO2 emission ppm S/D 884.5	99.76% 99.74% Sulphur Recovery Efficiency				
452 453 99-Apr-24 Unit 451 452	534.95 1051.24 CBA production MT/day 530.22 536.54	746.7 AVG >> SO2 emission ppm S/D 884.5 779.9	99.76% 99.74% Sulphur Recovery Efficiency 99.71% 99.73%				
452 453 99-Apr-24 Unit 451 452 453	534.95 1051.24 CBA production MT/day 530.22 536.54	746.7 AVG >> SO2 emission ppm S/D 884.5 779.9	99.76% 99.74% Sulphur Recovery Efficiency 99.71% 99.73% 99.72%				
452 453 19-Apr-24 Unit 451 452 453 0-Apr-24 Unit	534.95 1051.24 CBA production MT/day 530.22 536.54 1066.76	746.7 AVG >> SO2 emission ppm S/D 884.5 779.9 AVG >>	99.76% 99.74% Sulphur Recovery Efficiency 99.71% 99.73% 99.72%				
452 453 19-Apr-24 Unit 451 452 453 0-Apr-24 Unit 451	534.95 1051.24 CBA production MT/day 530.22 536.54 1066.76 CBA production MT/day	746.7 AVG >> SO2 emission ppm S/D 884.5 779.9 AVG >> SO2 emission ppm S/D	99.76% 99.74% Sulphur Recovery Efficiency 99.71% 99.73% 99.72% Sulphur Recovery Efficiency				
452 453 29-Apr-24 Unit 451 452 453 20-Apr-24	534.95 1051.24 CBA production MT/day 530.22 536.54 1066.76	746.7 AVG >> SO2 emission ppm S/D 884.5 779.9 AVG >>	99.76% 99.74% Sulphur Recovery Efficiency 99.71% 99.73% 99.72%				

J G I I I I	WOLD MONTON	10 01 002 211110	SION FROM SRUS			•	MONTH: April '20
16-Apr-24				25-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451		S/D		451	-	S/D	
452	531.79	1293.3	99.56%	452	553.89	495.1	99.75%
453	549.28	979.8	99.60%	453	566.92	387.3	99.81%
	1081.07	AVG >>	99.58%		1120.81	AVG >>	99.78%
17-Apr-24				26-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recover
	MT/day	ppm	Efficiency	4	MT/day	ppm	Efficiency
451		S/D		451		S/D	
452	551.43	1570.0	99.48%	452	546.41	445.9	99.77%
453	557.84	1284.2	99.58%	453	548.41	338.6	99.83%
	1109.27	AVG >>	99.53%		1094.82	AVG >>	99.80%
18-Apr-24				27-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
Onic	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
451	111/44/	S/D		451	111/44/	S/D	· ·
452	545.49	1272.7	99.52%	452	540.55	452.6	99.75%
453	564.52	1199.1	99.62%	453	572.73	343.2	99.81%
433	1110.01	AVG >>	99.57%	755	1113.28	AVG >>	99.78%
19-Apr-24	004 1 11	000	Collabora Document	28-Apr-24	004		Collabora D.
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	551.50	S/D	00.400/	451	544.45	S/D	00.760/
452	551.59	1371.6	99.49%	452	541.15	435.2	99.76%
453	571.63 1123.22	1335.3 AVG >>	99.57% 99.53%	453	559.81 1100.96	336.3 AVG >>	99.82% 99.79%
	1123.22	AVG >>	99.3370		1100.90	AVG >>	99.7970
20-Apr-24				29-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451		S/D		451		S/D	
452	572.39	1289.5	99.57%	452	540.91	482.8	99.75%
453	565.88	1299.9	99.56%	453	534.47	383.4	99.81%
	1138.27	AVG >>	99.57%		1075.38	AVG >>	99.78%
21-Apr-24				30-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451		S/D		451		S/D	
452	587.23	1384.1	99.49%	452	512.46	415.4	99.75%
453	583.78	1213.5	99.61%	453	506.36	319.3	99.81%
	1171.01	AVG >>	99.55%		1018.82	AVG >>	99.78%
22-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451		S/D					
452	564.76	737.9	99.72%				
453	545.29	602.6	99.74%				
	1110.05	AVG >>	99.73%				
23-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451		S/D	00 5				
452	546.11	567.4	99.78%				
453	571.52 1117.63	451.9 AVG >>	99.82% 99.80%				
	1117.03	749 //	33.3070				
24-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	F6F 7:	S/D	00 5				
452	565.31	525.6	99.76%				
453	578.61 1143.92	415.1 AVG >>	99.82% 99.79%				

OMPUTER	RISED MONITO	RING OF SO2 EM	ISSION FROM SRUS		MONTH: Ma	y '2024	
)1-May-24				11-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	367.62	636	99.77%	451	440.40	467	99.81%
452	377.63	342	99.85%	452	443.60	750	99.70%
453	370.30	247	99.89%	453	443.70	629	99.74%
	1115.55	AVG >>	99.83%		1327.70	AVG >>	99.75%
)2-May-24				12-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	388.39	726	99.78%	451	447.98	454	99.82%
452	384.41	318	99.87%	452	454.14	756	99.70%
453	398.78	219	99.91%	453	454.11	628	99.74%
	1171.58	AVG >>	99.85%		1356.23	AVG >>	99.75%
3-May-24				13-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	363.76	671	99.75%	451	448.19	482	99.81%
452	359.55	314	99.86%	452	457.87	718	99.72%
453	386.57	235	99.90%	453	458.17	597	99.75%
	1109.88	AVG >>	99.83%		1364.23	AVG >>	99.76%
4-May-24				14-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	412.07	750	99.73%	451	451.56	570	99.78%
452	411.27	350	99.86%	452	463.19	747	99.71%
453	425.38	263	99.89%	453	464.77	628	99.74%
	1248.72	AVG >>	99.83%		1379.52	AVG >>	99.74%
5-May-24				15-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	444.85	582	99.75%	451	441.54	572	99.77%
452	445.06	485	99.81%	452	454.87	744	99.70%
453	456.25 1346.16	395 AVG >>	99.84% 99.80%	453	454.72 1351.14	622 AVG >>	99.74% 99.74%
	1346.16	AVG >>	99.80%		1351.14	AVG >>	99.7470
06-May-24		SO2 emission	Sulphur Recovery				
Unit	CBA production MT/day		Efficiency				
451		ppm	99.77%				
452	452.94 453.67	588 806	99.70%				
453	466.26	714	99.71%				
433	1372.86	AVG >>	99.73%				
07-May-24 Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	457.86	586	99.77%				
452	464.08	818	99.69%				
453	462.59	715	99.71%				
	1384.53	AVG >>	99.72%				
8-May-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	446.63	411	99.84%				
452	446.45	686	99.73%				
453	446.71 1339.78	583 AVG >>	99.76% 99.78%				
	1555.76	,,	33.7070				
9-May-24 Unit	CBA production	SO2 emission	Sulphur Recovery				
OHIL	MT/day	ppm	Efficiency				
451	454.44	452	99.82%				
452	452.49	753	99.71%				
453	452.90	640	99.74%				
	1359.84	AVG >>	99.76%				
0-Ma:: 31							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	440.85	418	99.83%				
452	442.62	723	99.72%				
	441.98	604	99.75%				
453							

16-May-24				25-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	454.28	544	99.79%	451	514.82	579	99.77%
452	482.79	624	99.76%	452	514.80	823	99.68%
453	457.23	585	99.75%	453	513.96	644	99.73%
	1394.29	AVG >>	99.77%		1543.57	AVG >>	99.73%
17-May-24				26-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	469.99	611	99.76%	451	521.37	592	99.76%
452	496.91	734	99.72%	452	521.40	856	99.67%
453	476.47	611	99.74%	453	522.98	671	99.72%
	1443.37	AVG >>	99.74%		1565.76	AVG >>	99.72%
18-May-24				27-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	516.79	739	99.72%	451	535.67	618	99.76%
452	516.72	867	99.67%	452	535.59	889	99.66%
453	515.98	717	99.71%	453	535.23	698	99.71%
	1549.49	AVG >>	99.70%		1606.50	AVG >>	99.71%
19-May-24				28-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	525.03	786	99.70%	451	519.38	523	99.79%
452	524.97	938	99.65%	452	511.42	802	99.69%
453	525.44	778	99.69%	453	501.03	618	99.74%
	1575.44	AVG >>	99.68%		1531.84	AVG >>	99.74%
20-May-24				29-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	523.83	475	99.82%	451	480.89	290	99.89%
452	523.85	853	99.68%	452	450.49	712	99.72%
453	523.28	687	99.72%	453	419.34	520	99.77%
.55	1570.96	AVG >>	99.74%	.55	1350.72	AVG >>	99.79%
21-May-24				30-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	518.97	489	99.81%	451	470.92	647	99.78%
452	518.96	844	99.68%	452	439.70	718	99.72%
453	518.26	673	99.73%	453	408.25	520	99.77%
	1556.19	AVG >>	99.74%		1318.87	AVG >>	99.76%
22-May-24				31-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	514.00	630	99.76%	451	465.90	604	99.78%
452	513.42	795	99.70%	452	441.55	704	99.72%
453	508.96	633	99.74%	453	418.88	522	99.77%
	1536.39	AVG >>	99.73%		1326.34	AVG >>	99.75%
23-May-24	CDA ' · · ·	603 - 1 1	Culphus D.				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
451	MT/day	ppm	The state of the s				
451	531.84	634	99.76%				
452	531.82	849	99.68%				
	532.93	673	99.73%				
453	1596.59	AVG >>	99.72%				
453							
24-May-24	CBA production	SO2 emission	Sulphur Recovery				
	CBA production	SO2 emission	Sulphur Recovery Efficiency				
24-May-24 Unit	MT/day	ppm	Efficiency				
24-May-24 Unit 451	MT/day 534.67	ppm 615	Efficiency 99.76%				
24-May-24 Unit 451 452	MT/day 534.67 534.66	ppm 615 851	99.76% 99.68%				
24-May-24 Unit 451	MT/day 534.67	ppm 615	Efficiency 99.76%				

J.L.			ISSION FROM SRUS		MONTH: Ju		
1-Jun-24				11-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	454.78	488	99.82%	451	479.92	451	99.83%
452	424.61	666	99.73%	452	464.29	853	99.67%
453	393.84	477	99.78%	453	448.51	647	99.72%
	1273.23	AVG >>	99.78%		1392.72	AVG >>	99.74%
2-Jun-24	CDA production	CO3 amissism	Culphur Docovory	12-Jun-24	CDA maduation	CO3 emission	Culphur Bocovo
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recove Efficiency
451	MT/day 445.21	ppm 470	99.82%	451	MT/day 479.04	ppm 461	99.82%
452	422.64	669	99.73%	452	464.27	846	99.68%
453	399.84	474	99.79%	453	449.36	637	99.73%
433	1267.69	AVG >>	99.78%	433	1392.67	AVG >>	99.74%
	1207.03	AVG	33.7676		1332.07	AVG	33.7470
3-Jun-24				13-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	431.47	241	99.90%	451	477.58	568	99.78%
452	420.95	686	99.73%	452	466.46	856	99.67%
453	411.09	494	99.78%	453	456.00	640	99.73%
	1263.51	AVG >>	99.81%		1400.04	AVG >>	99.73%
4 7							-
4-Jun-24	CDA mandiretter	CO2 emileoles	Culphur Deservers	14-Jun-24	CDA mundicables	CO2 arrivates	Sulphur Recove
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Efficiency
451	MT/day 451.24	ppm 200	99.92%	451	MT/day 478.66	ppm 593	99.77%
451			99.75%	451			99.77%
452	433.97 416.63	627 442	99.75%	452	473.51 467.94	906 689	99.66%
733	1301.84	AVG >>	99.83%	455	1420.11	AVG >>	99.71%
	1301.04	AVG >>	33.0370		1420.11	AVO	33.7170
5-Jun-24				15-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	455.78	405	99.84%	451	475.91	594	99.77%
452	434.05	654	99.74%	452	460.24	919	99.64%
453	412.44	470	99.79%	453	443.35	693	99.70%
	1302.27	AVG >>	99.79%		1379.50	AVG >>	99.70%
6-Jun-24	CDA and dustion	CO2!!	Culahua Daaaaaa				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
451	MT/day 474.34	ppm 488	99.80%				
452	463.64	703	99.73%				
453	453.94	518	99.78%				
.55	1391.92	AVG >>	99.77%				
	1331.32	7,1,0,7,7	33.77.0				
7-Jun-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	476.63	503	99.80%				
452	457.92	695	99.73%				
453	438.85	513	99.78%				
	1373.39	AVG >>	99.77%				
8-Jun-24	CDA mandiretter	CO2 arriveles	Culphus D				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
451	MT/day	ppm					
451	476.70	247	99.90%				
452	463.42	767	99.71%				
453	450.88 1391.00	571 AVG >>	99.76% 99.79%				
	1391.00	AVU >>	33./3%				
9-Jun-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	481.15	408	99.86%				
452	465.58	842	99.68%				
453	449.87	633	99.72%				
	1396.60	AVG >>	99.75%				
0-Jun-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	479.80	428	99.85%				
452	465.13	836	99.68%				
		604	99.73%				
453	450.67 1395.60	631 AVG >>	99.75%				

16-Jun-24				25-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
Offic	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
451	474.48	608	99.77%	451	451.44	555	99.75%
452	445.78	930	99.63%	452	431.44	Shutdown	33.7370
453	417.51	696	99.68%	453	455.43	375	99.82%
.55	1337.77	AVG >>	99.69%	133	906.87	AVG >>	99.78%
	1007177	7,1077	33.0370		300.07	7.1.0 - 7	33.7070
17-Jun-24				26-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
Offic	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
451	476.28	595	99.77%	451	471.50	515	99.78%
452	467.75		99.65%	452	4/1.50		99.7670
453		887	99.75%	453	472.42	Shutdown	99.81%
453	459.94 1403.98	582 AVG >>	99.72%	453	473.43 944.93	386 AVG >>	99.79%
	1403.96	AVG >>	99.72%		944.93	AVG >>	99.79%
10 3 24				27 1 24			
18-Jun-24	CDA and dustion	CO2!!	Sulphur Recovery	27-Jun-24	CDA du eti	CO2!!	Sulphur Recovery
Unit	CBA production	SO2 emission		Unit	CBA production	SO2 emission	
451	MT/day	ppm	Efficiency	751	MT/day	ppm	Efficiency
451	462.20	472	99.82%	451	485.83	653	99.76%
452	408.92	1468	99.38%	452		Shutdown	00.700/
453	442.96	403	99.83%	453	475.83	473	99.78%
	1314.08	AVG >>	99.68%	ļ	961.66	AVG >>	99.77%
19-Jun-24				28-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	503.99	391	99.86%	451	470.84	660	99.74%
452		Shutdown		452		Shutdown	
453	484.21	300	99.87%	453	466.83	476	99.78%
	1111.71	AVG >>	99.87%		937.67	AVG >>	99.76%
20-Jun-24				29-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	486.28	431	99.84%	451	485.04	649	99.70%
452		Shutdown		452		Shutdown	
453	483.67	322	99.86%	453	488.83	492	99.76%
	969.95	AVG >>	99.85%		973.86	AVG >>	99.73%
21-Jun-24				30-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency	1	MT/day	ppm	Efficiency
451	479.28	489	99.76%	451	449.04	621	99.74%
452	175120	Shutdown		452		Shutdown	
453	474.67	358	99.81%	453	446.61	458	99.81%
	953.95	AVG >>	99.79%		895.65	AVG >>	99.78%
			22370				
22-Jun-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
Unit	CBA production MT/day	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm	Efficiency				
451		ppm 730					
451 452	MT/day 484.35	ppm 730 Shutdown	Efficiency 99.72%				
451	MT/day 484.35 494.37	ppm 730 Shutdown 667	99.72% 99.81%				
451 452	MT/day 484.35	ppm 730 Shutdown	Efficiency 99.72%				
451 452 453	MT/day 484.35 494.37	ppm 730 Shutdown 667	99.72% 99.81%				
451 452 453 23-Jun-24	MT/day 484.35 494.37 978.72	ppm 730 Shutdown 667 AVG >>	99.72% 99.81% 99.77%				
451 452 453	MT/day 484.35 494.37 978.72	ppm 730 Shutdown 667 AVG >> SO2 emission	99.72% 99.81% 99.77% Sulphur Recovery				
451 452 453 23-Jun-24 Unit	MT/day 484.35 494.37 978.72 CBA production MT/day	ppm 730 Shutdown 667 AVG >> SO2 emission ppm	99.72% 99.81% 99.77% Sulphur Recovery Efficiency				
451 452 453 23-Jun-24 Unit	MT/day 484.35 494.37 978.72	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725	99.72% 99.81% 99.77% Sulphur Recovery				
451 452 453 23-Jun-24 Unit 451 452	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown	99.81% 99.77% Sulphur Recovery Efficiency 99.74%				
451 452 453 23-Jun-24 Unit	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643	Efficiency 99.72% 99.81% 99.77% Sulphur Recovery Efficiency 99.74%				
451 452 453 23-Jun-24 Unit 451 452	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown	99.81% 99.77% Sulphur Recovery Efficiency 99.74%				
451 452 453 23-Jun-24 Unit 451 452 453	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643	Efficiency 99.72% 99.81% 99.77% Sulphur Recovery Efficiency 99.74%				
451 452 453 23-Jun-24 Unit 451 452 453	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35 463.37 923.72	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643 AVG >>	### Efficiency 99.72% 99.81% 99.77%				
451 452 453 23-Jun-24 Unit 451 452 453	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35 463.37 923.72 CBA production	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643 AVG >>	### Efficiency				
451 452 453 23-Jun-24 Unit 451 452 453 24-Jun-24 Unit	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35 463.37 923.72 CBA production	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643 AVG >> SO2 emission	Efficiency 99.72% 99.81% 99.77% Sulphur Recovery Efficiency 99.74% 99.75% 99.75% Sulphur Recovery Efficiency				
451 452 453 23-Jun-24 Unit 451 452 453 24-Jun-24 Unit	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35 463.37 923.72 CBA production	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643 AVG >> SO2 emission ppm 633	### Efficiency				
451 452 453 23-Jun-24 Unit 451 452 453 24-Jun-24 Unit 451 452	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35 463.37 923.72 CBA production MT/day	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643 AVG >> SO2 emission ppm 643 AVG >>	### Efficiency 99.72% 99.81% 99.77%				
451 452 453 23-Jun-24 Unit 451 452 453 24-Jun-24 Unit	MT/day 484.35 494.37 978.72 CBA production MT/day 460.35 463.37 923.72 CBA production	ppm 730 Shutdown 667 AVG >> SO2 emission ppm 725 Shutdown 643 AVG >> SO2 emission ppm 633	Efficiency 99.72% 99.81% 99.77% Sulphur Recovery Efficiency 99.74% 99.75% 99.75% Sulphur Recovery Efficiency				

)1-Jul-24				11-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	556.54	657	99.71%	451	560.03	854	99.69%
452		Unit under shutdown		452	301.91	544	99.65%
453	556.54	486	99.77%	453	394.99	661	99.67%
	1113.08	AVG >>	99.74%		1256.93	AVG >>	99.67%
)2-Jul-24				12-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	533.13	668	99.69%	451	579.23	793	99.73%
452		Unit under shutdown		452		Unit under shutdown	
453	514.31	505	99.81%	453	378.28	592	99.67%
	1047.44	AVG >>	99.75%		957.51	AVG >>	99.70%
3-Jul-24				13-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	564.06	694	99.71%	451	562.17	740	99.72%
452		Unit under shutdown		452		Unit under shutdown	
453	544.16	513	99.73%	453	391.08	549	99.70%
	1108.22	AVG >>	99.72%		953.25	AVG >>	99.71%
)4-Jul-24				14-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	536.56	696	99.68%	451	478.08	745	99.66%
452		Unit under shutdown		452		Unit under shutdown	
453	549.03	509	99.72%	453	471.87	564	99.70%
	1085.59	AVG >>	99.70%		949.95	AVG >>	99.68%
)5-Jul-24				45 31 34			
Unit	CBA production	SO2 emission	Sulphur Recovery	15-Jul-24 Unit	CBA production	SO2 emission	Sulphur Recove
UIIIL	MT/day	ppm	Efficiency	Ullit	MT/day	ppm	Efficiency
451	564.41	875	99.67%	451	511.60	830	99.74%
452	304.41	Unit under shutdown	99.0770	452	311.00	Unit under shutdown	99.7470
453	533.39	717	99.69%	453	504.95	663	99.72%
733	1097.80	AVG >>	99.68%	433	1016.55	AVG >>	99.73%
	1037.00	AVG >>	33.00 %		1010.33	AVG	33.7370
06-Jul-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	589.03	979	99.68%				
452		Unit under shutdown					
453	595.11	802	99.74%				
	1184.14	AVG >>	99.71%				
07-Jul-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	620.89	938	99.71%				
452		Unit under shutdown					
453	589.21	770	99.75%				
	1210.10	AVG >>	99.73%				
8-Jul-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	604.97	986	99.66%				
452		Unit under shutdown					
453	526.91	806	99.68%				
	1131.88	AVG >>	99.67%				
9-Jul-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	512.19	858	99.67%				
452	373.04	1158	99.59%				
453	491.97	674	99.69%				
	1377.20	AVG >>	99.65%				
10-Jul-24 Unit	CBA production	SO2 emission	Sulphur Recovery				
UIIIL	MT/day		Efficiency				
451	524.14	ppm 773	99.71%				
451	524.14 406.69	1058	99.71%				
453	467.50	598	99.72%				

16-Jul-24				25-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
Offic	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
451	498.84	925	99.65%	451	548.1	601	99.80%
452	490.04		33.0370	452	340.1		99.0070
453	477.20	Unit under shutdown	99.67%	453	E3E 03	Unit under shutdown	99.78%
433	477.38 976.22	744 AVG >>	99.66%	433	535.92 1084.02	634 AVG >>	99.79%
17-Jul-24				26-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	600.29	1473	99.56%	451	537.73	581	99.78%
452		Unit under shutdown		452		Unit under shutdown	
453	612.79	1238	99.60%	453	519.61	594	99.76%
	1213.08	AVG >>	99.58%		1057.34	AVG >>	99.77%
18-Jul-24				27-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
Offic	MT/day	ppm	Efficiency	Oilic	MT/day	ppm	Efficiency
451	596.60	1476	99.55%	451	526.34	478	99.77%
452	390.00	Unit under shutdown	33.3370	452	320.34	Unit under shutdown	33.77 70
453	596.91	1701	99.51%	453	496.77	569	99.75%
433	1193.51	AVG >>	99.53%	433	1023.11	AVG >>	99.76%
	1155.51	AVG	33.3370		1023.11	71077	33.7070
19-Jul-24				28-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	596.15	1284	99.60%	451	538.005	374	99.82%
452	555.125	Unit under shutdown		452		Unit under shutdown	
453	583.73	1531	99.56%	453	513.825	533	99.76%
	1179.88	AVG >>	99.58%		1051.83	AVG >>	99.79%
20-Jul-24				29-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	567.31	1320	99.56%	451	545.64	436	99.83%
452		Unit under shutdown		452		Unit under shutdown	
453	548.81	921	99.60%	453	569.37	591	99.85%
	1116.12	AVG >>	99.58%		1115.01	AVG >>	99.84%
21-Jul-24				30-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	567.67	1070	99.66%	451	490.23	569	99.73%
452		Unit under shutdown		452	330.96	1515	99.55%
453	549.16	737	99.72%	453	479.84	724	99.68%
	1116.83	AVG >>	99.69%		1301.03	AVG >>	99.65%
22-Jul-24		000 : :	Collabora Barrara	31-Jul-24	004 1 11	202 : :	Culaban Barrana
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency
451	MT/day	ppm	,	,=:	MT/day	ppm	
451	525.05	901	99.66%	451	495.23	297	99.88%
452	203.53	410	99.84%	452	418.02	1494	99.60%
453	510.24 1238.83	597 AVG >>	99.74% 99.75%	453	484.83 1398.09	508 AVG >>	99.78% 99.75%
	1238.83	AVG >>	99./5%		1396.09	AVG >>	99./5%
23-Jul-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	466.43	684	99.73%				
452	310.71	737	99.60%				
	464.22	435	99.80%				
453		AVG >>	99.71%				
453	1241.36						
	1241.36						
24-Jul-24		CO2 1 - 1	Culphus D				
	CBA production	SO2 emission	Sulphur Recovery				
24-Jul-24 Unit	CBA production MT/day	ppm	Efficiency				
24-Jul-24 Unit 451	CBA production MT/day 466.20	ppm 636	Efficiency 99.76%				
24-Jul-24 Unit 451 452	CBA production MT/day 466.20 309.63	ppm 636 951	99.76% 99.52%				
24-Jul-24 Unit 451	CBA production MT/day 466.20	ppm 636	Efficiency 99.76%				

					MONTH: Au		
)1-Aug-24				11-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	513.15	437.9	99.83%	451	564.16	407.7	99.85%
452	451.07	1015.7	99.60%	452	548.42	1676.3	99.50%
453	495.14	621.9	99.73%	453	517.76	670.4	99.73%
	1459.36	AVG >>	99.72%		1630.34	AVG >>	99.58%
)2-Aug-24				12-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	566.51	323.1	99.88%	451	565.66	426.8	99.84%
452	502.05	1278.3	99.56%	452	543.59	1446.9	99.55%
453	528.32	508.1	99.78%	453	530.65	699.2	99.72%
	1596.88	AVG >>	99.74%		1639.89	AVG >>	99.70%
2 4 24				13 4 34			
Unit	CBA production	SO2 emission	Sulphur Recovery	13-Aug-24 Unit	CBA production	SO2 emission	Sulphur Recove
Offic	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
451	568.63	383.0	99.86%	451	571.41	425.2	99.85%
452	568.63	383.0 1199.5	99.49%	452	5/1.41	1319.2	99.57%
453	510.07	541.3	99.77%	453	523.62	705.6	99.72%
733	1609.18	541.3 AVG >>	99.77%	433	1639.84	705.6 AVG >>	99.72%
	2003.10		33.7170		2003.01	,,,,,,	33.7170
4-Aug-24				14-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	570.16	394.7	99.86%	451	565.80	380.7	99.86%
452	518.13	1459.3	99.49%	452	538.98	1315.6	99.62%
453	526.40	549.5	99.77%	453	514.12	646.6	99.74%
	1614.69	AVG >>	99.69%		1618.90	AVG >>	99.74%
E-Aug-24				1E-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	15-Aug-24 Unit	CBA production	SO2 emission	Sulphur Recove
UIIIL	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
451	572.02	423.7	99.85%	451	562.94	390.5	99.86%
452			99.51%	451			99.56%
453	523.61	1654.8	99.75%	453	540.43	1429.3	99.74%
433	545.41 1641.05	593.6 AVG >>	99.70%	433	514.88 1618.25	653.8 AVG >>	99.72%
	1041.03	AVG	35.7676		1010.25	AVG >>	33.7270
06-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	569.63	449.6	99.84%				
452	522.21	1699.8	99.47%				
453	547.57	643.4	99.74%				
	1639.41	AVG >>	99.68%				
7-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
OHIL	MT/day	ppm	Efficiency				
451	570.43	435.4	99.84%				
452	519.05	1345.1	99.52%				
453	570.13	638.5	99.75%				
	1659.62	AVG >>	99.70%				
		· · · · · · · · · · · · · · · · · · ·					
8-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	598.66	554.7	99.80%				
452	530.79	1460.6	99.52%				
453	592.11	773.3	99.70%				
	1721.57	AVG >>	99.67%				
9-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	576.47	429.0	99.85%				
452	537.27	1577.0	99.49%				
453	529.35	675.4	99.73%				
	1643.09	AVG >>	99.69%				
L0-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	571.70	438.9	99.84%				
431							
452	539.57	1572.8	99.51%				
	539.57 549.32	1572.8 686.3	99.51% 99.73%				

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16-Aug-24				25-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	542.66	411.4	99.85%	451	459.28	408.6	99.84%
452	513.19	1397.5	99.52%	452	444.21	1225.3	99.52%
453	487.25	708.4	99.70%	453	421.23	541.8	99.76%
	1543.10	AVG >>	99.69%		1324.72	AVG >>	99.72%
17-Aug-24				26-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recov
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	544.54	364.5	99.87%	451	464.03	375.5	99.86%
452	515.51	1376.0	99.54%	452	440.61	1426.8	99.53%
453	505.15	620.5	99.75%	453	403.70	474.1	99.79%
	1565.21	AVG >>	99.72%		1308.33	AVG >>	99.74%
18-Aug-24				27-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recov
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	555.26	388.5	99.86%	451	417.21	266.7	99.89%
452	531.93	1250.9	99.55%	452	407.04	1589.8	99.47%
453	540.25	636.0	99.75%	453	392.16	310.4	99.86%
	1627.43	AVG >>	99.72%	T	1216.41	AVG >>	99.74%
			222.70	-			33.7.70
19-Aug-24				28-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recov
J	MT/day	ppm	Efficiency	31110	MT/day	ppm	Efficiency
451	566.37	417.3	99.85%	451	286.27	675.1	99.72%
452	546.21	1247.5	99.58%	452	190.26	1104.8	99.49%
453			99.74%	453			99.64%
433	531.85	658.0		433	276.14 752.67	716.9	99.60%
	1644.43	AVG >>	99.72%		/32.0/	AVG >>	99.00%
20 4 24				20 4 24			_
20-Aug-24	CDA desetion	SO2 emission	Sulphur Recovery	29-Aug-24	CDA dti	602!!	Sulphur Recove
Unit	CBA production		Efficiency	Unit	CBA production	SO2 emission	Efficiency
	MT/day	ppm			MT/day	ppm	
451	568.87	531.0	99.81%	451	342.43	498.6	99.79%
452	545.00	1294.0	99.49%	452	210.36	1026.9	99.52%
453	513.68	899.7	99.63%	453	368.36	502.8	99.74%
	1627.55	AVG >>	99.65%		921.15	AVG >>	99.68%
21-Aug-24	004 1 11	202	Culaban Baranan	30-Aug-24	004 1 11	000 1 1	Culaban Bassa
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recove Efficiency
	MT/day	ppm			MT/day	ppm	
451	569.03	522.0	99.81%	451	397.12	591.6	99.75%
452	542.74	1544.9	99.51%	452	362.54	1493.0	99.51%
453	503.62	917.9	99.62%	453	323.43	512.8	99.70%
	1615.39	AVG >>	99.65%		1083.09	AVG >>	99.65%
22-Aug-24				31-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	542.50	497.5	99.82%	451	492.95	561.6	99.73%
452	523.87	1472.3	99.53%	452	455.55	1172.6	99.52%
453	482.80	777.9	99.67%	453	188.53	957.7	99.56%
	1549.17	AVG >>	99.67%		1137.03	AVG >>	99.61%
23-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	533.56	450.6	99.83%				
452	497.86	1347.1	99.52%				
453	446.62	512.0	99.77%				
	1478.04	AVG >>	99.71%				
24-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
UIIIL	MT/day		Efficiency				
451		ppm 421.9	99.84%				
451	493.93	431.8					
	451.75	1260.5	99.49%				
452							
452 453	417.83 1363.51	522.3 AVG >>	99.78% 99.70%				

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1-Sep-24				11-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	544.96	245.0	99.89%	451	515.20	280.5	99.89%
452	495.83	1300.5	99.59%	452	442.02	1309.9	99.53%
453		453 S/D		453	484.42	210.1	99.91%
	1040.79	AVG >>	99.74%		1441.64	AVG >>	99.76%
2-Sep-24				12-Sep-24	L		
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	537.29	236.0	99.90%	451	498.05	377.3	99.85%
452	477.59	1640.0	99.52%	452	447.50	1250.0	99.59%
453		453 S/D		453	481.13	353.7	99.85%
	1014.88	AVG >>	99.71%		1426.68	AVG >>	99.76%
3-Sep-24				13-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	563.88	227.0	99.92%	451	508.91	464.3	99.82%
452	494.12	1540.4	99.56%	452	445.23	1148.1	99.53%
453		453 S/D		453	495.17	376.8	99.85%
	1058.00	AVG >>	99.74%		1449.31	AVG >>	99.73%
				14.5 24			
4-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recovery	14-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recove
UIIIL	MT/day	ppm	Efficiency	UIIIL	MT/day	ppm	Efficiency
451	538.85	238.1	99.91%	451	548.39	624.9	99.77%
452	460.31	1679.2	99.51%	452	492.44	549.9	99.76%
453	260.52	1255.2	99.48%	453	524.08	504.2	99.80%
133	1259.68	AVG >>	99.63%	455	1564.91	AVG >>	99.78%
5-Sep-24				15-Sep-24			
Unit	CBA production MT/day	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production MT/day	SO2 emission	Sulphur Recove Efficiency
451	490.79	ppm 240.5	99.90%	451	575.73	ppm 700.0	99.74%
452	490.79	1705.1	99.52%	452	510.69	596.3	99.75%
453	312.39	1412.9	99.51%	453	531.80	538.2	99.78%
433	1212.20	AVG >>	99.64%	455	1618.22	AVG >>	99.76%
06-Sep-24	CBA production	SO2 emission	Sulphur Recovery				
Unit	MT/day	ppm	Efficiency				
451			99.91%				
452	523.56 432.54	229.5 1622.0	99.50%				
453	398.21	1590.5	99.49%				
433	1354.31	AVG >>	99.63%				
7-Sep-24	CDA production	CO2 emission	Culphur Bocovory				
Unit	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Efficiency				
451	504.07	214.7	99.92%				
452	448.02	1629.1	99.53%				
453	409.87	1749.0	99.49%				
	1361.97	AVG >>	99.65%				
8-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recovery				
Jinc	MT/day	ppm	Efficiency				
451	488.36	213.0	99.92%				
452	441.58	1452.1	99.56%				
453	415.90	1235.8	99.52%				
	1345.84	AVG >>	99.67%				
9-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recovery				
OHIC	MT/day	ppm	Efficiency				
451	507.39	222.0	99.91%				
452	448.28	1336.3	99.57%				
453	422.17	1428.1	99.51%				
	1377.84	AVG >>	99.66%				
.0-Sep-24		SO2 omission	Sulphur Recovery				
Unit	CBA production MT/day	SO2 emission ppm	Efficiency				
	iii / day						
451	510 49	257.7	99.90%				
451 452	510.48 449.97	257.7 1461.8	99.90% 99.52%				
451 452 453	510.48 449.97 450.52	257.7 1461.8 206.4	99.52% 99.91%				

16-Sep-24	CDAdu atian	602!!	Culaban Danasan	25-Sep-24	CDAdu.atia	CO2!!	Culaban Baranan
Unit	CBA production MT/day	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency
451	566.82	ppm	99.75%	451	MT/day	ppm	99.71%
452		683.0	99.76%	452	569.90 508.99	798.2 615.0	99.74%
453	514.18	570.6 496.2	99.79%	453		496.7	99.79%
433	505.49 1586.49	496.2 AVG >>	99.77%	433	526.79 1605.68	496.7 AVG >>	99.75%
	1300.49	AVG >>	99.77 70		1005.00	AVG >>	99.7570
17-Sep-24				26-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	534.57	680.5	99.74%	451	557.13	797.4	99.70%
452	521.28	548.8	99.77%	452	497.84	584.3	99.75%
453	509.42	469.9	99.81%	453	506.99	463.6	99.80%
	1565.26	AVG >>	99.77%		1561.95	AVG >>	99.75%
18-Sep-24				27-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	549.64	708.6	99.74%	451	561.88	788.6	99.71%
452	505.81	560.2	99.76%	452	496.44	566.9	99.76%
453	510.58	472.3	99.80%	453	522.68	436.6	99.82%
	1566.03	AVG >>	99.77%	[1581.00	AVG >>	99.76%
19-Sep-24	004	202 : :	Codebon 2	28-Sep-24			Collabor 2
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency
451	MT/day	ppm	99.73%	451	MT/day	ppm	99.68%
451	556.93	725.4	99.76%	451	570.11	881.0	
452 453	508.37	552.7	99.76%	452 453	515.04	666.5	99.72% 99.79%
453	517.44 1582.74	455.9 AVG >>	99.81%	453	525.43 1610.58	490.8 AVG >>	99.79%
	1302.74	AVG >>	99.7770		1010.36	AVG >>	99.7370
20-Sep-24				29-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
- Oille	MT/day	ppm	Efficiency	0	MT/day	ppm	Efficiency
451	563.37	689.2	99.75%	451	569.00	829.0	99.70%
452	508.40	523.2	99.78%	452	515.30	610.1	99.75%
453	513.34	415.5	99.82%	453	531.91	380.8	99.84%
	1585.10	AVG >>	99.78%		1616.22	AVG >>	99.76%
21-Sep-24				30-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	561.52	705.6	99.74%	451	562.64	779.9	99.71%
452	498.80	540.8	99.77%	452	500.19	543.3	99.77%
453	533.32	425.8	99.82%	453	512.36	313.8	99.87%
	1593.64	AVG >>	99.78%		1575.19	AVG >>	99.78%
22 6 21							
22-Sep-24	CBA production	SO2 emission	Sulphur Recovery				
Unit	CBA production MT/day		Efficiency				
451	561.85	ppm 703.3	99.74%				
451	501.00	703.3 514.8	99.78%				
453	501.00	402.7	99.83%				
.55	1583.82	AVG >>	99.78%				
1			22070				
23-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	555.71	697.8	99.74%				
452	499.98	570.4	99.75%				
453	549.47	451.4	99.82%				
	1605.16	AVG >>	99.77%				
24-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
451	564.67	717.8	99.74%				
		EEO 1	99.76%				
452	504.79	550.1					
452 453	504.79 539.16 1608.62	430.4 AVG >>	99.82% 99.77%				

ANNEXURE - 4B

01-Apr-24				11-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	391.21	250.0	99.92%	Z451	447.85	250	99.91%
Z452	393.35	199.2	99.93%	Z452	449.44	200.8	99.93%
Z453	393.93	197.0	99.93%	Z453	450.56	197	99.93%
Total	1178.48	AVG >>	99.93%	Total	1347.85	AVG >>	99.92%
02-Apr-24				12-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	391.79	250	99.90%	Z451	489.17	250	99.92%
Z452	392.12	200.4	99.93%	Z452	492.27	218.3	99.92%
Z453	392.90	197	99.93%	Z453	493.45	197	99.92%
Total	1176.81	AVG >>	99.92%	Total	1474.90	AVG >>	99.92%
03-Apr-24				13-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
Offic	MT/day	ppm		Sinc	MT/day	ppm	
Z451	430.18	250	99.91%	Z451	452.81	250	99.93%
Z452	431.19	216.4	99.93%	Z452	455.01	203.1	99.93%
Z453	434.92	197	99.93%	Z453	455.14	197	99.93%
Total	1296.29	AVG >>	99.92%	Total	1362.96	AVG >>	99.93%
04-Apr-24			0.1.1.0	14-Apr-24			0.1.1.0
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	512.78	250	99.93%	Z451	422.06	250	99.91%
Z452	514.23	250.5	99.92%	Z452	424.25	203.1	99.93%
Z453	513.71	197	99.93%	Z453	426.03	197	99.93%
Total	1540.72	AVG >>	99.93%	Total	1272.35	AVG >>	99.92%
05 4 04				45 4 04			
05-Apr-24	CBA production	SO2 emission	Sulphur Recovery Efficiency	15-Apr-24	CRA production	SO2 emission	Sulphur Recovery Efficie
Unit			Sulphul Recovery Efficiency	Unit	CBA production		Sulphul Recovery Efficie
Z451	MT/day	ppm	20.020/	Z451	MT/day	ppm	99.92%
	524.54	250	99.92%	Z451 Z452	413.12	250	
Z452	525.81	204.1	99.93%		415.14	204.0	99.93%
Z453 Total	525.01 1575.35	197 AVG >>	99.93% 99.93%	Z453 Total	418.77 1247.03	197 AVG >>	99.93% 99.93%
TOLAI	13/3.33	AVG >>	99.93%	Total	1247.03	AVG >>	99.9376
06-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	526.32	250	99.92%				
Z452	525.14	225.0	99.92%				
Z453	528.69	197	99.93%				
Total	1580.15	AVG >>	99.92%				
07-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	528.27	250	99.92%				
Z452	524.83	224.4	99.93%				
Z453	528.14	197	99.92%				
Total	1581.23	AVG >>	99.92%				
08-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
OTHE	MT/day	ppm	, see see see see see see see see see se				
Z451			00.030/				
	527.70	250	99.92%				
Z452	526.82	287.6	99.93%				
Z453 Total	529.45 1583.98	197 AVG >>	99.93% 99.93%				
· ocui	1303.30	AVU //	25.5370				
09-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	532.23	250	99.92%				
Z452	534.39	238.0	99.92%				
Z453	533.88	197	99.93%				
Total	1600.50	AVG >>	99.92%				
10-Apr-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
5	MT/day	ppm	, , ,				
Z451	488.06	250	99.93%				
			99.92%				
Z452	490 25						
Z452 Z453	490.25 488.75	221.5 197	99.92%				

ANNEXURE - 4B

				26-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	447.67	250	99.93%	Z451	492.27	250	99.92%
Z452	445.14	211.8	99.92%	Z452	488.86	245.4	99.91%
Z453	450.97	197	99.93%	Z453	489.47	197	99.92%
Total	1343.78	AVG >>	99.93%	Total	1470.60	AVG >>	99.92%
17-Apr-24				27-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	459.33	250	99.91%	Z451	448.71	250	99.93%
Z452	455.41	231.0	99.92%	Z452	446.78	211.0	99.93%
Z453	461.48	197	99.93%	Z453	445.98	197	99.92%
Total	1376.22	AVG >>	99.92%	Total	1341.46	AVG >>	99.93%
		-				-	
18-Apr-24				28-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	492.79	250	99.92%	Z451	466.60	250	99.92%
Z452	487.27	232.0	99.92%	Z452	462.95	224.0	99.92%
Z453	495.28	197	99.93%	Z453	465.56	197	99.93%
Total	1475.35	197 AVG >>	99.93%	Total	1395.12	197 AVG >>	99.93%
, ocui	1170.00		JJ. JE 10	Total	1333.12		33.3270
19-Apr-24				29-Apr-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm	, i		MT/day	ppm	•
Z451	476.49	250.0	99.93%	Z451	494.92	250	99.91%
Z452	476.49	250.0	99.93%	Z451 Z452	494.92		99.92%
Z452 Z453			99.92%	Z452 Z453		224.0 197	99.92%
Total	479.64 1429.93	197 AVG >>	99.92%	Total	488.70 1471.06	197 AVG >>	99.92%
TOLAI	1429.93	AVG >>	99.93%	TOLAI	14/1.00	AVG >>	99.9270
20 Apr 24				30-Apr-24			
20-Apr-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency		CBA production	SO2 emission	Sulphur Recovery Efficie
UIIIL	MT/day	ppm		Unit	MT/day	ppm	
Z451			99.91%	Z451			99.91%
Z452	459.89	250	99.93%		508.09	250	99.92%
	459.20	203.6		Z452	507.58	252.6	
Z453	465.82	197	99.92%	Z453	474.54	197	99.93%
Total	1384.91	AVG >>	99.92%	Total	1490.21	AVG >>	99.92%
24 4 24							
21-Apr-24	CDAdustina	CO2 - mindon	Sulphur Recovery Efficiency				
Unit	CBA production	SO2 emission	Sulphul Recovery Efficiency				
	MT/day	ppm					
Z451	475.06	250	99.91%				
Z452	472.47	219.2	99.92%				
Z453	479.45	197	99.92%				
Total	1426.98	AVG >>	99.92%				
22-Apr-24			0.1.1.0				
22-Apr-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Unit	CBA production MT/day	SO2 emission ppm					
Unit Z451		ppm 250	99.91%				
Unit Z451 Z452	MT/day	ppm	99.91% 99.93%				
Unit Z451	MT/day 497.91	ppm 250	99.91%				
Unit Z451 Z452	MT/day 497.91 493.62	ppm 250 216.2	99.91% 99.93%				
Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82	250 216.2 197	99.91% 99.93% 99.93%				
Unit Z451 Z452 Z453	MT/day 497.91 493.62 502.82 1494.36	250 216.2 197 AVG >>	99.91% 99.93% 99.93% 99.92%				
Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36	250 216.2 197 AVG >>	99.91% 99.93% 99.93%				
Z451 Z452 Z453 Total 23-Apr-24 Unit	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day	ppm 250 216.2 197 AVG >> SO2 emission ppm	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total 23-Apr-24 Unit Z451	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08	ppm 250 216.2 197 AVG >> SO2 emission ppm 250	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91%				
Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day	ppm 250 216.2 197 AVG >> SO2 emission ppm	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92%				
Z451 Z452 Z453 Total 23-Apr-24 Unit Z451	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96	ppm 250 216.2 197 AVG >> SO2 emission ppm 250	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93%				
Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96	250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93%				
2451 2452 2453 7 total 23-Apr-24 Unit 2451 2452 2453 7 total 24-Apr-24	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >>	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >>	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total 24-Apr-24 Unit	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >>	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92%				
2451 2452 2453 7 total 23-Apr-24 Unit 2451 2452 2453 7 total 24-Apr-24	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >>	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total 24-Apr-24 Unit	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit Z451	MT/day 497.91 493.62 502.82 1494.36 CEA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm 250 253.8 253.8 253.8 253.8	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% Sulphur Recovery Efficiency				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit Z451 Z452 Z453 Z453	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85 CBA production MT/day 580.72 581.16	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm 250 272.9	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit 24-Apr-24 Unit Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm 250 272.9 197	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.92% Sulphur Recovery Efficiency 99.93% 99.92%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit 24-Apr-24 Unit Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm 250 272.9 197	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85 CBA production MT/day 553.08 547.82 555.96 1656.85	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm 250 272.9 197	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.92% Sulphur Recovery Efficiency 99.93% 99.92%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CEA production MT/day 553.08 547.82 555.96 1656.85 CEA production MT/day 580.72 581.16 595.74	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm 250 272.9 197 AVG >>	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85 CBA production MT/day 580.72 581.16 595.74 1757.62	ppm 250 216.2 197 AVG >>	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93%				
Unit Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit Z451 Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85 CBA production MT/day 580.72 581.16 595.74 1757.62 CBA production MT/day	ppm 250 216.2 197 AVG >> SO2 emission ppm 250 253.8 197 AVG >> SO2 emission ppm 250 4VG >> SO2 emission ppm 250 272.9 197 AVG >> SO2 emission ppm 250 272.9 250 272.9 250 272.9 250 272.9 250 272.9 250 272.9	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.92% Sulphur Recovery Efficiency 99.93% 99.92% Sulphur Recovery Efficiency 99.93% 99.92%				
Z451 Z452 Z453 Total 23-Apr-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total 24-Apr-24 Unit Z451 Z452 Z453 Total 24-Apr-24 Unit Unit Unit Unit Unit Unit Unit Unit	MT/day 497.91 493.62 502.82 1494.36 CBA production MT/day 553.08 547.82 555.96 1656.85 CBA production MT/day 580.72 581.16 595.74 1757.62	ppm 250 216.2 197 AVG >>	99.91% 99.93% 99.93% 99.92% Sulphur Recovery Efficiency 99.91% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.93% 99.92% Sulphur Recovery Efficiency 99.93% 99.92%				

04 85 -							
01-May-24	CBA production	SO2 emission	Sulphur Recovery	11-May-24 Unit	CBA production	SO2 emission	Sulphur Reco
Unit	MT/day	ppm ppm	Efficiency	Unit	MT/day	SO2 emission ppm	Efficiency
Z451	523.96	250.0	99.92%	Z451	495.30	250.0	99.92%
Z452	516.78	233.1	99.92%	Z452	501.14	223.6	99.92%
Z453	521.13	197.0	99.93%	Z453	498.35	197.0	99.93%
Total	1561.87	AVG >>	99.92%	Total	1494.79	AVG >>	99.92%
02-May-24 Unit	CBA production	SO2 emission	Sulphur Recovery	12-May-24 Unit	CBA production	SO2 emission	Sulphur Reco
Offic	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
Z451	549.27	250.0	99.92%	Z451	473.89	250.0	99.92%
Z452	561.59	290.4	99.90%	Z452	478.86	217.2	99.92%
Z453	584.43	197.0	99.93%	Z453	477.44	197.0	99.93%
Total	1695.29	AVG >>	99.92%	Total	1430.20	AVG >>	99.92%
02 May 24				42 May 24			
03-May-24 Unit	CBA production	SO2 emission	Sulphur Recovery	13-May-24 Unit	CBA production	SO2 emission	Sulphur Reco
OTHE	MT/day	ppm	Efficiency	Offic	MT/day	ppm	Efficiency
Z451	565.02	250.0	99.92%	Z451	482.62	250.0	99.92%
Z452	585.46	314.0	99.89%	Z452	487.46	211.9	99.92%
Z453	598.62	197.0	99.93%	Z453	485.61	197.0	99.93%
Total	1749.10	AVG >>	99.91%	Total	1455.69	AVG >>	99.92%
04-May-24				14-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Reco
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
Z451	553.62	250.0	99.92%	Z451	511.82	250.0	99.92%
Z452	575.54	284.7	99.90%	Z452	517.28	210.7	99.93%
Z453	588.45	197.0	99.93%	Z453	516.40	197.0	99.93%
Total	1717.61	AVG >>	99.92%	Total	1545.50	AVG >>	99.93%
05-May-24				15-May-24			
Unit Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Reco
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
Z451	560.52	250.0	99.92%	Z451	520.47	250.0	99.92%
Z452	604.06	289.9	99.90%	Z452	531.34	228.5	99.92%
Z453	631.15	197.0	99.93%	Z453	538.73	197.0	99.93%
Total	1795.73	AVG >>	99.92%	Total	1590.54	AVG >>	99.92%
06-May-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
Z451	553.35	250.0	99.92%				
Z452 Z453	593.49	276.4	99.91%				
Total	621.24 1768.08	197.0 AVG >>	99.93% 99.92%				
07-May-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
7/51	MT/day	ppm					
Z451 Z452	536.04 564.30	250.0 211.9	99.92% 99.93%				
Z452 Z453	584.49	197.0	100.00%				
Total	1684.83	AVG >>	99.95%				
08-May-24	004	000	Culabum Day				
Unit	CBA production MT/day	SO2 emission	Sulphur Recovery Efficiency				
Z451	M1/day 519.85	ppm 250.0	99.92%				
Z451 Z452	519.85	267.7	99.92%				
Z453	525.94	197.0	99.93%				
Total	1572.04	AVG >>	99.92%				
09-May-24	CDA neoductic	CO2 emissis	Sulphur Recovery				
Unit	CBA production MT/day	SO2 emission ppm	Efficiency				
Z451	511.41	250.0	99.92%				
Z452	519.13	235.2	99.92%				
Z453	520.68	197.0	99.93%				
Total	1551.22	AVG >>	99.92%				
40.12							
10-May-24	CRA production	CO2 aminaia	Sulphur Recovery				
Unit	CBA production	SO2 emission	Efficiency				
Z451	MT/day 498.88	ppm 250.0	99.92%				
Z451 Z452	498.88 503.53	250.0	99.92%				
	JUJ.JJ	4.5.5					
Z453	502.43	197.0	99.93%				

16-May-24	CBA resident	CO2	Sulphur Pocovery	26-May-24		CO2! '	Sulphur Doc-
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Reco Efficiency
7451	MT/day	ppm		7.5	MT/day	ppm	
Z451	528.68	250.0	99.92%	Z451	491.93	250.0	99.92%
Z452 Z453	555.93	252.5	99.91%	Z452 Z453	490.94	234.1	99.92% 99.93%
	574.15	197.0	99.93%		490.17	197.0	
Total	1658.77	AVG >>	99.92%	Total	1473.03	AVG >>	99.92%
17-May-24				27-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Reco
Unit	MT/day	ppm	Efficiency	Unit	MT/day	ppm	Efficiency
Z451			99.92%	Z451	474.23		99.92%
Z452	504.41 510.17	250.0 232.3	99.92%	Z452	474.23	250.0 210.1	99.93%
Z453		197.0	99.93%	Z453	474.41		99.93%
Total	510.79 1525.37	AVG >>	99.92%	Total	1424.36	197.0 AVG >>	99.93%
Total	1323.37	7.0077	3313270	1000	1121130	7.0077	3313370
18-May-24				28-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Reco
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
Z451	454.10	250.0	99.92%	Z451	467.48	250.0	99.92%
Z452	458.83	205.1	99.93%	Z452	466.75	216.5	99.92%
Z453	456.86	197.0	99.93%	Z453	467.83	197.0	99.93%
Total	1369.79	AVG >>	99.93%	Total	1402.06	AVG >>	99.92%
19-May-24		000	Culphus Doc	29-May-24		000	Culphing
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Reco Efficiency
7451	MT/day	ppm		3.51	MT/day	ppm	
Z451	461.95	250.0	99.92%	Z451	460.85	250.0	99.92%
Z452	464.94	189.7	99.93%	Z452	461.72	204.4	99.93%
Z453	464.78	197.0	99.93%	Z453	460.13	197.0	99.93%
Total	1391.67	AVG >>	99.93%	Total	1382.70	AVG >>	99.93%
20_May 24				20 May 24			
20-May-24 Unit	CBA production	SO2 emission	Sulphur Recovery	30-May-24 Unit	CBA production	SO2 emission	Sulphur Reco
OTIL	MT/day	ppm	Efficiency	UIIL	MT/day	ppm	Efficiency
Z451	481.47	250.0	99.92%	Z451	463.55	250.0	99.92%
Z452	485.96	210.3	99.93%	Z452	472.08	215.9	99.92%
Z453	483.82	197.0	99.93%	Z453	480.29	197.0	99.93%
Total	1451.25	AVG >>	99.93%	Total	1415.92	AVG >>	99.92%
		-				-	
21-May-24				31-May-24			
Unit	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Reco
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
Z451	473.22	250.0	99.92%	Z451	448.15	250.0	99.92%
Z452	476.26	235.5	99.92%	Z452	449.93	210.2	99.93%
Z453	473.36	197.0	99.93%	Z453	449.95	197.0	99.93%
Total	1422.84	AVG >>	99.92%	Total	1348.03	AVG >>	99.93%
22-May-24	CDAdustis-	602	Sulphur Recovery				
Unit	CBA production	SO2 emission	Efficiency				
7451	MT/day	ppm					
Z451 Z452	483.05	250.0 221.2	99.92% 99.92%				
Z452 Z453	481.82	221.2 197.0	99.93%				
Total	486.51 1451.38	197.0 AVG >>	99.93%				
, ocui	1 101.00		JJ.JE /0				
23-May-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
Z451	522.62	250.0	99.92%				
Z452	534.13	259.3	99.91%				
Z453	542.69	197.0	99.93%				
Total	1599.44	AVG >>	99.92%				
24-May-24							
Unit	CBA production	SO2 emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
Z451	524.21	250.0	99.92%				
Z452	527.85	240.1	99.92%				
Z453	534.06	197.0	99.93%				
Total	1586.11	AVG >>	99.92%				
25-May-24	CDA ' · · ·	CO2 1 1	Culphus Doc				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
7451	MT/day	ppm					
Z451	521.28	250.0	99.92%				
Z452 Z453	522.56	244.5	99.92%				
	522.42	197.0	99.93%				
Total	1566.26	AVG >>	99.92%				

ANNEXURE - 4B

01-Jun-24				11-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
UIIIL	MT/day	ppm		Offic	MT/day	ppm	
Z451	416.79	250.0	99.92%	Z451	509.30	250.0	99.92%
Z452	417.40	191.6	99.93%	Z452	515.40	235.1	99.92%
Z453	417.54	197.0	99.93%	Z453	522.93	197.0	99.93%
Total	1251.74	AVG >>	99.93%	Total	1547.64	AVG >>	99.92%
02-Jun-24		000 : :	Culabar Danas Fffician	12-Jun-24	one i ii	000	Colobour Donocour Efficie
Unit	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Efficiency	Unit	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Efficie
Z451	392.38	250.0	99.92%	Z451	503.13	250.0	99.92%
Z452	392.90	190.8	99.93%	Z452	505.27	229.2	99.92%
Z453	392.56	197.0	99.93%	Z453	503.91	197.0	99.93%
Total	1177.84	AVG >>	99.93%	Total	1512.31	AVG >>	99.92%
03-Jun-24				13-Jun-24			
Unit	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Efficiency	Unit	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Efficie
Z451			99.92%	Z451	503.95		99.92%
	384.56	250.0				250.0	
Z452 Z453	385.02	177.1	99.94% 99.93%	Z452 Z453	505.66	236.6	99.92%
	384.43 1154.01	197.0 AVG >>	99.93%	Z453 Total	501.53 1511.14	197.0 AVG >>	99.93% 99.92%
Total	1154.01	AVU >>	99.95% 0	Total	1311.14	AVG >>	39.92%
04-Jun-24				14-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	373.18	250.0	99.92%	Z451	487.82	250.0	99.92%
Z452	373.15	184.8	99.93%	Z452	490.53	243.5	99.92%
Z453	374.47	197.0	99.93%	Z453	485.15	197.0	99.93%
Total	1120.80	AVG >>	99.93%	Total	1463.51	AVG >>	99.92%
				4-1-0			
05-Jun-24	CBA production	603	Culphus Deceyon, Efficiency	15-Jun-24	CDAdu-ti	CO2ii	Culphus Dogguess Efficia
Unit		SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
Z451	MT/day	ppm	100.02%	Z451	MT/day	ppm	99.92%
Z452	384.36	250.0		Z451 Z452	496.71	250.0	99.92%
Z453	385.06	197.0	99.92% 99.93%	Z453	502.62	235.5	
Total	387.30 1156.72	197.0 AVG >>	99.95%		387.17 1386.50	197.0 AVG >>	99.93% 99.92%
Total	1130.72	AVG >>	99.9070	Total	1360.30	AVG >>	33.3270
06-Jun-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	441.10	250.0	99.92%				
Z452	439.52	194.5	99.93%				
Z453	443.48	197.0	99.93%				
Total	1324.09	AVG >>	99.93%				
07 1 04							
07-Jun-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	458.11	250.0	99.92%				
Z452	456.46	210.9	99.93%				
Z453	460.15	197.0	99.93%				
Total	1374.72	AVG >>	99.93%				
00 10 04							
08-Jun-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
UTIIE	MT/day	ppm					
Z451	476.39	250.0	99.92%				
Z452	475.77	223.7	99.92%				
Z453	475.77	197.0	99.93%				
Total	1430.62	AVG >>	99.92%				
09-Jun-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
7451	MT/day	ppm	00.000				
Z451	493.27	250.0	99.92%				
Z452	494.54	234.5	99.92%				
Z453	496.66	197.0	99.93% 99.92%				
Total	1484.47	AVG >>	99.92%				
10-Jun-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
JIIIL	MT/day	ppm					
Z451	506.73	250.0	99.92%				
Z452	504.04	232.8	99.92%				
		197.0	99.93%				
Z453	508.16						

ANNEXURE - 4B

16-Jun-24				26-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficience
	MT/day	ppm			MT/day	ppm	
Z451	479.33	250.0	99.92%	Z451	484.74	250.0	99.92%
Z452	506.50	155.8	99.95%	Z452	470.68	234.0	99.92%
Z453	453.47	197.0	99.93%	Z453	477.14	197.0	99.93%
Total	1439.30	AVG >>	99.93%	Total	1432.56	AVG >>	99.92%
17-Jun-24				27-Jun-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficience
	MT/day	ppm			MT/day	ppm	
Z451	476.34	250.0	99.92%	Z451	456.52	250.0	99.92%
Z452	498.43	141.3	99.95%	Z452	455.40	378.6	99.85%
Z453	459.13	197.0	99.93%	Z453	442.43	197.0	99.93%
Total	1433.90	AVG >>	99.94%	Total	1354.35	AVG >>	99.90%
40 Jun 24				20 Jun 24			
18-Jun-24	CBA production	SO2 emission	Sulphur Recovery Efficiency	28-Jun-24	CBA production	SO2 emission	Sulphur Recovery Efficience
Unit	MT/day	ppm	Suprial recovery Emelency	Unit	MT/day	ppm	Suprial recovery Emercin
Z451			99.92%	Z451			99.92%
	457.27	250.0			463.74	250.0	
Z452	466.85	189.5	99.93%	Z452	462.82	192.4	99.93%
Z453	452.86	197.0	99.93%	Z453	460.45	197.0	99.93%
Total	1376.99	AVG >>	99.93%	Total	1387.01	AVG >>	99.93%
10_ lun 24				29-Jun-24			
19-Jun-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	29-Jun-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficience
UIIIL	MT/day	ppm		Unit	MT/day	ppm	
Z451	445.17		99.92%	Z451			99.92%
Z451 Z452		250.0	99.92%	Z451 Z452	442.81	250.0	99.92%
Z452 Z453	449.52	218.8	99.93%	Z452 Z453	443.50	181.8	99.93%
Total	444.13 1338.83	197.0 AVG >>	99.92%	Total	441.62 1327.93	197.0 AVG >>	99.93%
TOLAI	1330.03	AVG >>	99.92%	TOLAI	1327.93	AVG >>	99.93%
20 Jun 24				20 Jun 24			
20-Jun-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	30-Jun-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficience
UIIIL	MT/day	ppm	Sulphur recovery Emelency	UIIIL	MT/day	ppm	Suprial recovery Emercin
Z451	443.51	250.0	99.92%	Z451	427.15	250.0	99.92%
Z452	445.16	203.1	99.93%	Z451 Z452	427.13	186.2	99.93%
Z452 Z453	444.67	197.0	99.93%	Z452 Z453	426.75	197.0	99.93%
Total	1333.34	AVG >>	99.93%	Total	1282.09	AVG >>	99.93%
Total	1555.54	AVG >>	33.3370	Total	1202.03	AVG >>	33.3370
04 1 04							
21-Jun-24		SO2 emission	Sulphur Recovery Efficiency				
Unit	CBA production	502 emission	Sulphul Recovery Efficiency				
	MT /day						
7451	MT/day	ppm	00.020/				
Z451	441.51	250.0	99.92%				
Z452	441.51 442.81	250.0 194.4	99.93%				
Z452 Z453	441.51 442.81 440.70	250.0 194.4 197.0	99.93% 99.93%				
Z452	441.51 442.81	250.0 194.4	99.93%				
Z452 Z453 Total	441.51 442.81 440.70 1325.01	250.0 194.4 197.0	99.93% 99.93%				
Z452 Z453 Total 22-Jun-24	441.51 442.81 440.70 1325.01	250.0 194.4 197.0 AVG >>	99.93% 99.93% 99.93%				
Z452 Z453 Total	441.51 442.81 440.70 1325.01	250.0 194.4 197.0 AVG >>	99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit	441.51 442.81 440.70 1325.01 CBA production MT/day	250.0 194.4 197.0 AVG >>	99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >>	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >>	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z451 Z452	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 197.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z451 Z452	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit 2451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 197.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 24-Jun-24	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 AVG >>	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit 2451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 4VG >> SO2 emission ppm 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0 250.0	99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit 2451 Z452 Z453 Total Z451 Z453 Total 24-Jun-24 Unit	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 1381.95 CBA production MT/day	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 208.0 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z453 Total 24-Jun-24 Unit Z451 Z453 Z453 Z453 Z453 Z453 Z453 Z453 Z453	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.94% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72 487.43	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO3 emission ppm 250.0 208.0 197.0 AVG >> SO4 emission ppm 250.0 208.0 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72 487.43	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 AVG >> SO2 emission ppm 250.0 250.0 250.0 250.0 250.0 250.0 270.0	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72 487.43	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO3 emission ppm 250.0 208.0 197.0 AVG >> SO4 emission ppm 250.0 208.0 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z453 Total Z451 Z453 Total Z451 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72 487.43 487.08 1463.22	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 AVG >> SO2 emission ppm 250.0 250.0 250.0 250.0 250.0 250.0 270.0	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72 487.08 1463.22	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z453 Total Z451 Z453 Total Z451 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72 487.43 487.08 1463.22	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 250.0 250.0 250.0 250.0 270.0 AVG >> SO2 emission ppm 250.0 270.0 AVG >> SO2 emission ppm 250.0 270.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 1381.95 CBA production MT/day 488.72 487.43 487.08 1463.22 CBA production MT/day	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 SO2 emission ppm 250.0 SO2 emission ppm	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93%				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 460.00 1381.95 CBA production MT/day 488.72 487.43 487.08 1463.22 CBA production MT/day 512.30	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 213.2 197.0 AVG >> SO2 emission ppm 250.0 213.2 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% Sulphur Recovery Efficiency 99.93% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total 22-Jun-24 Unit Z451 Z452 Z453 Total 23-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total 24-Jun-24 Unit Z451 Z452 Z453 Total Z451 Z452 Z453 Total	441.51 442.81 440.70 1325.01 CBA production MT/day 450.45 449.48 450.19 1350.11 CBA production MT/day 460.96 461.00 1381.95 CBA production MT/day 488.72 487.43 487.08 1463.22 CBA production MT/day	250.0 194.4 197.0 AVG >> SO2 emission ppm 250.0 184.3 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 208.0 197.0 AVG >> SO2 emission ppm 250.0 SO2 emission ppm 250.0 SO2 emission ppm	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% Sulphur Recovery Efficiency 99.92% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.93% Sulphur Recovery Efficiency 99.93% 99.93% 99.93% 99.93% 99.93%				

01-Jul-24				11-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	406.16	250.0	99.92%	Z451	447.49	250.0	99.92%
Z452	407.30	184.3	99.93%	Z452	447.39	195.9	99.93%
Z453	406.00	197.0	99.93%	Z453	444.29	197.0	99.93%
Total	1219.47	AVG >>	99.93%	Total	1339.18	AVG >>	99.93%
02-Jul-24				12-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
7451	MT/day	ppm		Z451	MT/day	ppm	00.030/
Z451	378.63	250.0	99.92%		404.16	250.0	99.92%
Z452	380.56	189.7	99.92%	Z452	405.39	171.8	99.93%
Z453	378.92 1138.11	197.0 AVG >>	99.93% 99.92%	Z453 Total	402.78 1212.33	197.0 AVG >>	99.93% 99.93%
Total	1136.11	AVG >>	99.92%	Total	1212.33	AVG >>	99.95%
03-Jul-24				13-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	392.28	250.0	99.92%	Z451	399.77	250.0	99.92%
Z452	395.66	167.9	99.94%	Z452	403.03	177.9	99.93%
Z453	395.20	197.0	99.93%	Z453	400.78	197.0	99.93%
Total	1183.14	AVG >>	99.93%	Total	1203.58	AVG >>	99.93%
04 1							
04-Jul-24	CBA production	SO2 emission	Sulphur Recovery Efficiency	14-Jul-24	CBA production	SO2 emission	Sulphur Recovery Efficie
Unit	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Emclency	Unit	CBA production MT/day	SO2 emission ppm	Julphui Recovery ETTICIE
Z451	421.58	250.0	99.92%	Z451	406.30	250.0	99.92%
Z452	423.31	197.8	99.93%	Z452	409.64	168.7	99.94%
Z453	423.31	197.0	99.93%	Z453	409.04	197.0	99.93%
Total	1266.64	AVG >>	99.93%	Total	1223.68	AVG >>	99.93%
iotai	1200.04	AVG >>	99.9370	Total	1223.00	AVG >>	99.9370
05-Jul-24				15-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	420.01	250.0	99.92%	Z451	434.84	250.0	99.92%
Z452	421.53	176.7	99.94%	Z452	436.25	188.7	99.93%
Z453	419.36	197.0	99.93%	Z453	435.45	197.0	99.93%
Total	1260.89	AVG >>	99.93%	Total	1306.54	AVG >>	99.93%
06-Jul-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	400.69	250.0	99.92%				
Z452	405.56	196.5	99.92%				
Z453	404.01	197.0	99.93%				
Total	1210.25	AVG >>	99.92%				
07-Jul-24	CDAdustis	603	Sulphur Recovery Efficiency				
Unit	CBA production MT/day	SO2 emission ppm	Sapiral recovery Efficiency				
7451			99.92%				
	399.24	250.0	99.92%				
Z452	399.24 401.00	250.0 195.3	99.92%				
Z452 Z453	399.24	250.0 195.3 197.0					
Z452 Z453	399.24 401.00 400.37	250.0 195.3	99.92% 99.93%				
Z452 Z453 Total	399.24 401.00 400.37 1200.60	250.0 195.3 197.0 AVG >>	99.92% 99.93% 99.92%				
Z452 Z453 Total	399.24 401.00 400.37 1200.60	250.0 195.3 197.0 AVG >>	99.92% 99.93%				
Z452 Z453 Total 08-Jul-24 Unit	399.24 401.00 400.37 1200.60 CBA production MT/day	250.0 195.3 197.0 AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Z452 Z453 Total 08-Jul-24 Unit	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92%				
Z451 Z452 Z453 Total	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total 09-Jul-24 Unit	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total 09-Jul-24	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total 09-Jul-24 Unit Z451 Z452	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total 09-Jul-24 Unit	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0 210.8	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total 09-Jul-24 Unit Z451 Z452 Z453	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73 435.41 436.00	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0 210.8 197.0	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency Sulphur Recovery Efficiency 99.92% 99.92% 99.92% 99.92%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total 09-Jul-24 Unit Z451 Z452 Z453	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73 435.41 436.00 1306.14	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0 AVG >> AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% 99.92% 99.92%				
Z452 Z453 Total 08-Jul-24 Unit Z451 Z452 Z453 Total 09-Jul-24 Unit Z451 Z452 Z453 Total	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73 435.41 436.00 1306.14	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0 210.8 197.0 AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency Sulphur Recovery Efficiency 99.92% 99.92% 99.92% 99.92%				
Z452 Z453 Fotal 08-Jul-24 Unit Z451 Z452 Z453 Fotal 09-Jul-24 Unit Z451 Z451 Z451 Z452 Z453 Fotal	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73 435.41 436.00 1306.14 CBA production MT/day	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0 210.8 197.0 AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency				
Z452 Z453 Fotal 08-Jul-24 Unit Z451 Z452 Z453 Fotal 09-Jul-24 Unit Z451 Z452 Z453 Fotal 10-Jul-24 Unit 10-Jul-24 Unit	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73 435.41 436.00 1306.14 CBA production MT/day 444.59	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0 210.8 197.0 AVG >> SO2 emission ppm 250.0 210.8 197.0 AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% 99.92% 99.92% 99.92%				
Z452 Z453 Fotal 08-Jul-24 Unit Z451 Z452 Z453 Fotal 09-Jul-24 Unit Z451 Z452 Z453 Fotal	399.24 401.00 400.37 1200.60 CBA production MT/day 407.05 408.22 408.22 1223.50 CBA production MT/day 434.73 435.41 436.00 1306.14 CBA production MT/day	250.0 195.3 197.0 AVG >> SO2 emission ppm 250.0 211.4 197.0 AVG >> SO2 emission ppm 250.0 210.8 197.0 AVG >>	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency				

ANNEXURE - 4B

Unit				26-Jul-24			
	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	461.86	250.0	99.92%	Z451	460.55	250.0	99.92%
Z452	464.57	205.4	99.92%	Z452	461.10	199.9	99.93%
Z453	462.44	197.0	99.93%	Z453	460.03	197.0	99.93%
Total	1388.87	AVG >>	99.92%	Total	1381.68	AVG >>	99.93%
Total	1300.07	AVG >>	33.3270	Total	1301.00	AVG >>	99.93%
47 1.1 24				27 1.1 24			
17-Jul-24	CRA production	CO2 amission	Sulphur Recovery Efficiency	27-Jul-24	CPA production	CO2 amission	Sulphur Recovery Efficie
Unit	CBA production	SO2 emission	Sulphul Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphul Recovery Linci
	MT/day	ppm			MT/day	ppm	
Z451	481.75	250.0	99.92%	Z451	436.96	250.0	99.92%
Z452	484.48	244.5	99.91%	Z452	437.95	198.8	99.92%
Z453	485.71	197.0	99.93%	Z453	435.97	197.0	99.93%
Total	1451.95	AVG >>	99.92%	Total	1310.88	AVG >>	99.92%
18-Jul-24				28-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	462.43	250.0	99.92%	Z451	431.98	250.0	99.92%
Z452	462.28	187.8	99.93%	Z452	433.53	179.6	99.93%
Z453			99.93%	Z453			99.93%
	460.21	197.0			434.05	197.0	
Total	1384.92	AVG >>	99.93%	Total	1299.56	AVG >>	99.93%
10 1:1 24				20 1 04			
19-Jul-24	CBA production	SO2 emission	Sulphur Recovery Efficiency	29-Jul-24	CBA production	SO2 emission	Sulphur Recovery Efficie
Unit	CBA production		Sapilal recovery Efficiency	Unit			Salphai Necovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	443.76	250.0	99.92%	Z451	474.96	250.0	99.92%
Z452	446.98	190.1	99.93%	Z452	483.30	211.0	99.92%
Z453	429.18	197.0	99.93%	Z453	496.44	197.0	99.93%
Total	1319.92	AVG >>	99.93%	Total	1454.71	AVG >>	99.92%
20-Jul-24				30-Jul-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	450.68	250.0	99.92%	Z451	498.88	250.0	99.92%
Z452	465.93	200.9	99.92%	Z452	524.19	227.7	99.92%
Z453	470.82	197.0	99.93%	Z453	553.07	197.0	99.93%
Total	1387.43	AVG >>	99.92%	Total	1576.13	AVG >>	99.92%
TULAT	1307.43	AVG >>	99.92%	TOLAI	13/0.13	AVG >>	99.92%
04 1 04				24 11 04			
21-Jul-24			Culaban Danasan Efficiency	31-Jul-24			Culabum Danasana Efficia
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	502.38	250.0	99.92%	Z451	495.57	250.0	99.92%
Z452	530.28	225.5	99.92%	Z452	520.74	215.5	99.92%
Z453	549.75	197.0	99.93%	Z453	549.84	197.0	99.93%
Total	1582.42	AVG >>	99.92%	Total	1566.16	AVG >>	99.92%
		AVG //					
		AVG >>					
22-Jul-24							
22-Jul-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	CBA production MT/day		Sulphur Recovery Efficiency				
		SO2 emission	Sulphur Recovery Efficiency 99.92%				
Unit	MT/day	SO2 emission					
Unit Z451	MT/day 486.30 513.02	SO2 emission ppm 250.0 218.0	99.92%				
Unit Z451 Z452	MT/day 486.30 513.02 514.55	SO2 emission ppm 250.0	99.92% 99.92%				
Unit Z451 Z452 Z453	MT/day 486.30 513.02	SO2 emission ppm 250.0 218.0 197.0	99.92% 99.92% 99.93%				
Z451 Z452 Z453 Total	MT/day 486.30 513.02 514.55	SO2 emission ppm 250.0 218.0 197.0	99.92% 99.92% 99.93%				
Unit Z451 Z452 Z453	MT/day 486.30 513.02 514.55	SO2 emission ppm 250.0 218.0 197.0 AVG >>	99.92% 99.92% 99.93%				
Unit Z451 Z452 Z453 Total Z3-Jul-24	MT/day 486.30 513.02 514.55 1513.86	SO2 emission ppm 250.0 218.0 197.0 AVG >>	99.92% 99.92% 99.93% 99.92%				
Z451 Z452 Z453 Total 23-Jul-24 Unit	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day	SO2 emission ppm 250.0 218.0 197.0 AVG >>	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total 23-Jul-24 Unit Z451	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 250.0 \$02 emission ppm 250.0	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92%				
Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92%				
Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22	SO2 emission ppm 250.0 218.0 197.0 AVG >> SO2 emission ppm 250.0 217.8 197.0	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93%				
Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8	99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92%				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22	SO2 emission ppm 250.0 218.0 197.0 AVG >> SO2 emission ppm 250.0 217.8 197.0	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93%				
Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total 24-Jul-24 Z451 Z452 Z453	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >>	99.92% 99.93% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92%				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$0.0 217.8 1	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93%				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total 24-Jul-24 Unit	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 ppm 400 ppm 4	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92%				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total Unit Z451 Z452 Z453 Unit Z451 Z453 Z453 Z453	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 490.20	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 \$03 emission ppm 250.0	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92%				
Unit 2451 2452 2453 Total 23-Jul-24 Unit 2451 2452 2453 Total 24-Jul-24 Unit 2451 2452 2453 2453	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 ppm 400 ppm 4	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total Unit Z451 Z452 Z453 Unit Z451 Z453 Z453 Z453	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 490.20	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 \$03 emission ppm 250.0	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92%				
Unit 2451 2452 2453 Total 23-Jul-24 Unit 2451 2452 2453 Total 24-Jul-24 Unit 2451 2452 2453 2453	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 480.20 541.26	\$02 emission ppm 250.0 197.0 AVG >> \$02 emission ppm 250.0 AVG >> \$03 emission ppm 250.0 AVG >>	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total 24-Jul-24 Unit Z451 Z452 Z453 Total	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 480.20 541.26 490.16	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$03 emission ppm 250.0 217.8 197.0 AVG >> \$03 emission ppm 250.0 219.0 197.0 1	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total 24-Jul-24 Unit Z451 Z452 Z453 Total	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 491.20 541.26 490.16 1511.62	\$02 emission ppm 250.0 197.0 AVG >> \$02 emission ppm 250.0 218.8 197.0 AVG >> \$03 emission ppm 250.0 AVG >> \$03 emission ppm 250.0 AVG >> \$04 emission ppm 250.0 AVG >> \$05 emission ppm 2	99.92% 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.93% 99.92% 99.92% 99.92% 99.92%				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z452 Z453 Total 24-Jul-24 Unit Z451 Z452 Z453 Total Z451 Z451 Z452 Z453 Total	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 480.20 541.26 490.16	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$03 emission ppm 250.0 217.8 197.0 AVG >> \$03 emission ppm 250.0 219.0 197.0 1	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency				
Unit 2451 2452 2453 Total 23-Jul-24 Unit 2452 2453 Total 24-Jul-24 Unit 2451 2452 2453 Total 2451 2451 2451 2451 2451 2451 2451 245	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 480.20 541.26 490.16 1511.62	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 229.2 197.0 AVG >> \$03 emission ppm 250.0 2	99.92% 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.93% 99.92% 99.92% 99.92% 99.92%				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z453 Total 24-Jul-24 Unit Z451 Z453 Total Z451 Z453 Total Z451 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total Dilt Unit Unit Unit	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 480.20 541.26 490.16 1511.62	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 229.2 197.0 AVG >> \$03 emission ppm 250.0 229.2 197.0 AVG >> \$03 emission ppm 250.0 279.2 197.0 AVG >> \$03 emission ppm 250.0 279.2 197.0 AVG >> \$03 emission ppm 250.0 279.2 197.0 AVG >> \$03 emission ppm 250.0 9 emiss	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% Sulphur Recovery Efficiency				
Unit 2451 2452 2453 Total 23-Jul-24 Unit 2451 2452 2453 Total 24-Jul-24 Unit 2451 2451 2451 2452 2453 Total 25-Jul-24 Unit	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 480.20 541.26 490.16 1511.62 CBA production MT/day 479.35	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 229.2 197.0 AVG >> \$02 emission ppm 250.0 229.2 \$03 emission ppm 250.0 250.0 \$03 emission ppm 250.0	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% 99.92% 99.92% 99.92% 99.92%				
Unit Z451 Z452 Z453 Total 23-Jul-24 Unit Z451 Z453 Total 24-Jul-24 Unit Z451 Z453 Total Z451 Z453 Total Z451 Z453 Total Z451 Z452 Z453 Total Z451 Z452 Z453 Total Dilt Unit Unit Unit	MT/day 486.30 513.02 514.55 1513.86 CBA production MT/day 491.20 506.56 526.22 1523.98 CBA production MT/day 480.20 541.26 490.16 1511.62	\$02 emission ppm 250.0 218.0 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 217.8 197.0 AVG >> \$02 emission ppm 250.0 229.2 197.0 AVG >> \$03 emission ppm 250.0 229.2 197.0 AVG >> \$03 emission ppm 250.0 279.2 197.0 AVG >> \$03 emission ppm 250.0 279.0 197.0 AVG >> \$03 emission ppm 250.0 197.0 1	99.92% 99.92% 99.93% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% Sulphur Recovery Efficiency 99.92% 99.92% Sulphur Recovery Efficiency				

ANNEXURE - 4B

CAA production SOZ emssion SUphur Recovery Efficiency Production SOZ emssion SUphur Recovery Efficiency SOZ emssion SUphur Recovery Effici								
MT/day ppm								
2631 938.85 230.0 999.52% 2222 519.06 279.06 999.22% 2222 519.06 279.06 999.22% 2222 519.06 279.06 999.22% 2222 519.06 279.06 999.22% 2222 519.06 279.06 999.22% 2222 519.06 279.06 999.22% 2222 519.06 279.06 999.22% 2222 519.06 279.06 999.22% 2223 599.22 2233 599.22 22	Unit			Sulphur Recovery Efficiency	Unit	· · · · · · · · · · · · · · · · · · ·		Sulphur Recovery Effi
22-22 193-28 293-34 99-02%	7454			00.020/	7454			20.020/
2433 576.65 197.0 99.03% 99.03% 170al 155.13 AVG >> 99.03% 99.03% 170al 155.13 AVG >> 99.03% 99.03% 170al 155.13 AVG >> 99.03% 170al AVG >> 99.03% 170al 155.13 AVG >> 99.03%								
Table								
102-Jug-24 URE CIAS production SQ2 emeson Sulphur Recovery Efficiency M1/day spin 11 (14 pt 14								
Like	Iotai	1619.18	AVG >>	99.92%	lotai	1596.19	AVG >>	99.92%
MT/day pm	02-Aug-24				12-Aug-24			
2451 590.07 290.0 99.92% 2452 597.24 197.0 99.93% 2453 597.24 197.0 99.93% 2453 597.24 197.0 99.93% 2453 597.24 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.23 197.0 99.93% 2453 597.24 2454 2452 2	Unit			Sulphur Recovery Efficiency	Unit			Sulphur Recovery Effi
2452 551.14 223.6 99.2% 2452 539.28 220.1 99.2% 2452 539.28 220.1 99.2% 2452 539.28 220.1 99.2% 2452 539.28 220.1 99.2% 2452 539.28 220.1 99.2% 2452 539.28 220.1 99.2% 2452 539.28 2452 2	7454				7454			00.030/
2453 579.24 197.0 99.93% 70tal 2451 361.04 246 259.0 99.92% 197.0 99.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 197.0 199.93% 197.0 199.93% 197.0 199.93% 199.93% 199.0 199.93% 199.93% 199.0								
Total								
13-Aug-24 Use CR3 production SO2 emission Sulphur Recovery Efficiency Production P								
Link	Iotal	1631.44	AVG >>	99.92%	Total	1619.65	AVG >>	99.92%
MT/day Spm Page	03-Aug-24				13-Aug-24	ı		
2451 501.72 220.0 99.92% 2452 510.08 250.0 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 99.92% 2452 510.08 227.7 2452	Unit			Sulphur Recovery Efficiency	Unit			Sulphur Recovery Effi
2432 538.21 229.1 99.92% 72452 591.05 227.7 99.92% 72453 530.59 727.0 99.92% 72453 573.33 197.0 99.92% 72451 72454	7451				7454			00.030/
2453 536.69 197.0 99.93%								
Total 1556.63 AVG >> 99.92%								
December								
Unit	. ocai	1330.03	AVU //	55.5270	Total	1024.40	AVG //	55.5270
MY/day	04-Aug-24				14-Aug-24			
Z451	Unit			Sulphur Recovery Efficiency	Unit	· ·		Sulphur Recovery Effic
Z452 500.77		. ,						
2451 19.0		491.44	250.0	99.92%		494.00	250.0	
Total 1595.45			222.1			497.26	231.3	
15-Aug-24 Unit CBA production MT/day ppm Sulphur Recovery Efficiency Ppm Sulphur Recovery Efficiency Ppm P	Z453		197.0				197.0	99.93%
CBA production CBA	Total	1505.45	AVG >>	99.92%	Total	1493.46	AVG >>	99.92%
CBA production CBA	05 4 04				45 4			
MT/day ppm		CRA production	CO2 omission	Sulphur Recovery Efficiency			SO2 omission	Sulphur Recovery Effi
Z451	Unit			Supridi Recovery Efficiency	Unit	· ·		Supridi Necovery Erri
2452 495,68 212.5 99,92% 2453 540,65 197.0 99,93% 2453 540,65 197.0 99,93% 2453 540,65 197.0 99,93% 2453 540,65 197.0 99,93% 2453 540,65 197.0 99,93% 2453 540,65 197.0 99,93% 2453 540,65 197.0 99,93% 2453 2452 2452 2481,12 225.0 99,52% 2452 2481,12 225.0 99,92% 2451 490,73 250,0 99,93% 2453 360,65 246,00 24	Z451			99.92%	Z451			99.92%
Total 1489.63 197.0 99.93% Total 1489.63 AVG >> 99.92%	Z452				Z452			99.92%
Ob-Aug-24 Unit CBA production MT/day ppm SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 490.73 250.0 99.92% 99.22% Z452 498.12 229.0 99.92% 99.93% Total 1498.18 AVG >> 99.93% 70*Aug-24 Village of the control ppm SUlphur Recovery Efficiency ppm Z451 498.05 250.0 99.92% Z452 515.67 219.1 99.92% Z453 538.27 197.0 99.93% Total 1551.98 AVG >> 99.92% 88-Aug-24 Unit CBA production MT/day ppm Sulphur Recovery Efficiency ppm MT/day ppm Sulphur Recovery Efficiency ppm Ppm A451 512.19 250.0 99.92% 2451 512.19 250.0 99.92% 2452 535.75 224.1 99.92% 2453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92%	Z453	504.65	197.0	99.93%	Z453	540.62	197.0	99.93%
CRA production SO2 emission Sulphur Recovery Efficiency	Total	1489.63	AVG >>	99.92%	Total	1560.58	AVG >>	99.92%
CRA production SO2 emission Sulphur Recovery Efficiency								
MT/day		CBA production	SO2 emission	Sulphur Recovery Efficiency				
Z451 490.73 250.0 99.92% Z452 498.12 229.0 99.92% Z453 509.33 197.0 99.93% Total 1498.18 AVG >> 99.92% O7-Aug-24 Unit CEA production MT/day ppm S02 emission ppm Sulphur Recovery Efficiency ppm Z451 498.05 250.0 99.92% Z452 515.67 219.1 99.92% Z453 538.27 197.0 99.93% Total 1551.98 AVG >> 99.92% 88-Aug-24 S02 emission ppm Sulphur Recovery Efficiency ppm Z451 512.19 250.0 99.92% Z452 535.75 224.1 99.92% Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% 2451 512.76 250.0 99.92% 2452 536.86 224.0 99.92% 2453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 2452 536.86 224.0 <td>UTIL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	UTIL							
Z452 498.12 229.0 99.92% Z453 509.33 197.0 99.93% Total 1498.18 AVG >> 99.92% Wink CBA production SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 498.05 250.0 99.92% Z453 538.27 197.0 99.93% Z451 1551.98 AVG >> 99.92% Z451 1551.98 AVG >> 99.92% White CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 512.19 250.0 99.92% Z452 535.75 224.1 99.92% Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% Z451 512.76 250.0 99.92% White CBA production ppm SUlphur Recovery Efficiency ppm Ppm 2451 512.76 250.0 99.92% 2452 536.86 224.0 99.92% 2453 565.98 197.0 99.93% T	7/151			99 97%				
2453								
Total 1498.18 AVG >> 99.92% 07-Aug-24 So2 emission MT/day Sulphur Recovery Efficiency 2451 498.05 250.0 99.92% 2452 515.67 219.1 99.92% 2453 538.27 197.0 99.93% Total 1551.98 AVG >> 99.92% 8-Aug-24 Wh. Sulphur Recovery Efficiency Unit CBA production SO2 emission ppm Sulphur Recovery Efficiency 2451 512.19 250.0 99.92% 2452 535.75 224.1 99.92% 2453 564.99 197.0 99.93% 70tal 1612.93 AVG >> 99.92% 2453 564.99 197.0 99.92% 10tal 1612.93 AVG >> 99.92% 2451 512.76 250.0 99.92% 2451 512.76 250.0 99.92% 2452 536.86 224.0 99.92% 7ctal 1615.60 AVG								
O7-Aug-24 Unit CBA production SO2 emission ppm Sulphur Recovery Efficiency Z451 498.05 250.0 99.92% Z453 538.27 197.0 99.93% Total 1551.98 AVG >> 99.92% 88-Aug-24 SO2 emission MT/day Sulphur Recovery Efficiency Z451 512.19 250.0 99.92% Z452 535.75 224.1 99.92% Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% 99-Aug-24 Wink CBA production CBA production Ppm Sulphur Recovery Efficiency 99-Aug-24 Wink CBA production CBA production Ppm Sulphur Recovery Efficiency 3451 512.76 250.0 99.92% 2452 536.86 224.0 99.92% 2452 536.86 224.0 99.92% 70al 1615.60 AVG >> 99.92% 10-Aug-24 So2 emission MT/day Sulphur Recovery Efficiency Ppm <								
Unit								
MT/day	07-Aug-24							
Z451 498.05 250.0 99.92% Z452 515.67 219.1 99.92% Z453 538.27 197.0 99.93% Total 1551.98 AVG >> 99.92% O8-Aug-24 Unit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 512.19 250.0 99.92% Z452 535.75 224.1 99.92% Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% Whit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% Total	Unit			Sulphur Recovery Efficiency				
2452 515.67 219.1 99.92% 2453 538.27 197.0 99.93% Total 1551.98 AVG >> 99.92% O8-Aug-24 Unit CBA production MT/day ppm Sulphur Recovery Efficiency ppm 2451 512.19 250.0 99.92% 2452 535.75 224.1 99.92% 2453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% Unit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm 2451 512.76 250.0 99.92% 2451 512.76 250.0 99.92% 2452 536.86 224.0 99.92% 2451 512.76 250.0 99.92% 2452 536.98 197.0 99.93% 70tal 1615.60 AVG >> 99.92% 10-Aug-24 10.0 AVG >> 99.92% 10-Aug-24 505.29 250.0 99.92% 2451 505.29 250.0 99.92% 2452 533.07 228.9 99.92%	7451			99 92%				
2453								
Total 1551.98								
OB-Aug-24 CBA production SO2 emission MT/day ppm Page Page								
Unik CBA production SO2 emission ppm Sulphur Recovery Efficiency Z451 512.19 250.0 99.92% Z452 535.75 224.1 99.92% Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% Wh CBA production SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% Unit CBA production mW//day SO2 emission ppm SUlphur Recovery Efficiency 401 1615.60 AVG >> 99.92% 505.29 250.0 99.92% 452 538.87 20.0 99.92% 2451 505.29 250.0 99.92% 2452 533.07 228.9 99.92%								
MT/day ppm 250.0 99.92% 2452 535.75 224.1 99.92% 2452 535.75 224.1 99.92% 2452 255.0 299.92% 2452 2452 255.0 2452 255.0 2452 256.8 224.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.8 240.0 299.92% 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 256.0 2452 2452 256.0 2452 2452 256.0 2452 2	08-Aug-24			Culabur Pagaran 500				
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Z452 535.75 224.1 99.92% Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% Unit CBA production SO2 emission pm Sulphur Recovery Efficiency pm Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 10-Aug-24 10.0 SO2 emission MT/day ppm Sulphur Recovery Efficiency pm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%	7454			00.000				
Z453 564.99 197.0 99.93% Total 1612.93 AVG >> 99.92% O9-Aug-24 Unit CBA production MT/day ppm SO2 emission ppm SUlphur Recovery Efficiency ppm Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 10-Aug-24 Unit CBA production MT/day ppm Sulphur Recovery Efficiency pm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%								
Total 1612.93 AVG >> 99.92% 09-Aug-24 Unit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm 2451 512.76 250.0 99.92% 2452 536.86 224.0 99.92% 2453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 10-Aug-24 Interpretation of MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm 2451 505.29 250.0 99.92% 2452 533.07 228.9 99.92%								
O9-Aug-24 Unit CBA production SO2 emission ppm Sulphur Recovery Efficiency Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 400 AVG >> 99.92% 10-Aug-24 SO2 emission MT/day Sulphur Recovery Efficiency ppm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%								
Unik CBA production SO2 emission ppm Sulphur Recovery Efficiency Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% Unik CBA production SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%	. ocui	1012.55	AVU //	JJ.JE70				
Unik CBA production SO2 emission ppm Sulphur Recovery Efficiency Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% Unik CBA production SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%	09-Aug-24							
Z451 512.76 250.0 99.92% Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 10-Aug-24 Unit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%	Unit			Sulphur Recovery Efficiency				
Z452 536.86 224.0 99.92% Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 10-Aug-24 Unik CRA production MT/day ppm Sulphur Recovery Efficiency ppm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%								
Z453 565.98 197.0 99.93% Total 1615.60 AVG >> 99.92% 10-Aug-24 Unit CBA production MT/day ppm SO2 emission ppm Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%								
Total 1615.60 AVG >> 99.92% 10-Aug-24 Unit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency ppm 2451 505.29 250.0 99.92% 2452 533.07 228.9 99.92%								
10-Aug-24 Unit CBA production SO2 emission ppm Sulphur Recovery Efficiency pm 47/day 2451 505.29 250.0 99.92% 2452 533.07 228.9 99.92%								
Unit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%	ıotaı	1615.60	AVG >>	99.92%				
Unit CBA production MT/day SO2 emission ppm Sulphur Recovery Efficiency Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%	10-Aun-24							
MT/day ppm 2451 505.29 250.0 99.92% 2452 533.07 228.9 99.92%		CBA production	SO2 emission	Sulphur Recovery Efficiency				
Z451 505.29 250.0 99.92% Z452 533.07 228.9 99.92%								
Z452 533.07 228.9 99.92%	Z451			99.92%				
				99.92%				
	-734							

16-Aug-24	CDA production	SO2 emission	Sulphur Recovery Efficiency	26-Aug-24	CDA nundustion	SO2 emission	Sulphur Recovery Efficier
Unit	CBA production		Sulphul Recovery Efficiency	Unit	CBA production		Sulphul Recovery Efficiel
	MT/day	ppm			MT/day	ppm	
Z451	502.08	250.0	99.92%	Z451	464.79	250.0	99.92%
Z452	521.33	209.5	99.93%	Z452	463.42	219.1	99.92%
Z453	542.45	197.0	99.93%	Z453	465.63	197.0	99.93%
Total	1565.85	AVG >>	99.93%	Total	1393.84	AVG >>	99.92%
17-Aug-24				27-Aug-24			
	CBA production	SO2 emission	Sulphur Recovery Efficiency		CBA production	SO2 emission	Sulphur Recovery Efficie
Unit			Supridi recovery Emelency	Unit			Sulphur recovery Emele
	MT/day	ppm			MT/day	ppm	
Z451	492.93	250.0	99.92%	Z451	434.79	250.0	99.92%
Z452	494.09	237.0	99.91%	Z452	468.46	232.0	99.91%
Z453	499.22	197.0	99.93%	Z453	483.66	197.0	99.93%
Total	1486.24	AVG >>	99.92%	Total	1386.90	AVG >>	99.92%
18-Aug-24				28-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
Offic	MT/day	ppm	, , , , , ,	Offic	MT/day	ppm	, ,
7451			00.038/	Z451			00.020/
Z451	495.22	250.0	99.92%		26.35	250.0	99.92%
Z452	495.59	223.1	99.92%	Z452	362.80	244.1	99.90%
Z453	506.46	197.0	99.93%	Z453	384.40	197.0	99.93%
Total	1497.27	AVG >>	99.92%	Total	773.54	AVG >>	99.92%
19-Aug-24				29-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm		1	MT/day	ppm	
Z451	507.83	250.0	99.92%	Z451	374.30	250.0	99.92%
Z451 Z452			99.92%	Z452			99.93%
	528.19	226.4			376.61	214.3	
Z453	548.37	197.0	99.93%	Z453	354.67	197.0	99.93%
Total	1584.39	AVG >>	99.92%	Total	1105.57	AVG >>	99.93%
20-Aug-24				30-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451			99.92%	Z451	441.00		99.92%
	517.63	250.0				250.0	
Z452	553.86	273.6	99.90%	Z452	469.44	287.7	99.91%
Z453	590.09	197.0	99.93%	Z453	204.91	197.0	99.93%
Total	1661.59	AVG >>	99.92%	Total	1115.34	AVG >>	99.92%
21-Aug-24				31-Aug-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	512.76	250.0	99.92%	Z451	444.60	250.0	99.92%
Z452			99.91%	Z452			99.91%
	540.78	250.1			518.43	284.4	
Z453	570.99	197.0	99.93%	Z453	12.87	197.0	99.93%
Total	1624.53	AVG >>	99.92%	Total	975.89	AVG >>	99.92%
22-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	502.27	250.0	99.92%				
Z452	520.92	254.6	99.91%				
Z453	541.28	197.0	99.93%				
Total	1564.47	AVG >>	99.92%				
. ocui	1304.47	740//	33.3270				
23-Aug-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	490.66	250.0	99.92%				
Z452	504.64	225.1	99.92%				
Z453	519.60	197.0	99.93%				
Total	1514.90	AVG >>	99.92%				
. ocui	1314.50	74077	33.3270				
24-Aug-24			Culabum Page				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	478.41	250.0	99.92%				
Z452	491.44	250.7	99.91%				
Z453	505.24	197.0	99.93%				
			99.92%				
Total	1475.09	AVG >>	99.92%				
25-Aug-24							
LU Aug LT	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Unit		ppm					
	MT/day						
Unit		250 N	99,92%				
Unit Z451	461.54	250.0	99.92%				
Unit Z451 Z452	461.54 460.71	206.8	99.92%				
Unit Z451	461.54						

ANNEXURE - 4B

01-Sep-24				11-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Effic
	MT/day	ppm			MT/day	ppm	
Z451	473.46	250.0	99.92%	Z451	486.80	250.0	99.92%
Z452	576.44	284.0	99.92%	Z452	492.06	197.8	99.93%
Z453	LPG- mode			Z453	66.47	197.0	99.93%
Total	1065.40	AVG >>	99.92%	Total	1045.33	AVG >>	99.93%
00 0 04				40.004			
02-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	12-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recovery Effici
Offic	MT/day	ppm	,	Offic	MT/day	ppm	
Z451	519.42	250.0	99.92%	Z451	525.96	250.0	99.92%
Z452	686.13	284.0	99.92%	Z452	531.09	215.8	99.92%
Z453	LPG- mode			Z453	SHUT DOWN		22.02
Total	1224.60	AVG >>	99.92%	Total	1068.33	AVG >>	99.92%
03-Sep-24			50.	13-Sep-24			0.1.1.0
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Effici
7.15	MT/day	ppm			MT/day	ppm	
Z451	477.27	250.0	99.92%	Z451	546.77	250.0	99.92%
Z452	598.29	284.0	99.92%	Z452	571.83	239.7	99.92%
Z453	295.55	197.0	99.93%	Z453	SHUT DOWN 1129.60	AVC > ·	99.92%
Total	1371.11	AVG >>	99.92%	Total	1129.60	AVG >>	99.92%
04-Sep-24				14-Sep-24	ı		
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Effici
	MT/day	ppm			MT/day	ppm	
Z451	463.32	250.0	99.92%	Z451	559.08	250.0	99.92%
Z452	619.16	284.0	99.92%	Z452	565.31	237.3	99.92%
Z453	527.67	197.0	99.93%	Z453	SHUT DOWN		
Total	1610.14	AVG >>	99.92%	Total	1135.12	AVG >>	99.92%
0E Can 24				45 Can 24			
05-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	15-Sep-24 Unit	CBA production	SO2 emission	Sulphur Recovery Effici
UTIL	MT/day	ppm	Sulpinal necessary Emelency	Offic	MT/day	ppm	Sulphur recovery Errici
Z451	459.78	250.0	99.92%	Z451	542.49	250.0	99.92%
Z452	560.95	284.0	99.92%	Z452	541.25	234.5	99.92%
Z453	526.33	197.0	99.93%	Z453	SHUT DOWN	254.5	
Total	1547.05	AVG >>	99.92%	Total	1093.68	AVG >>	99.92%
06-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	462.48	250.0	99.92%				
Z452	567.69	230.0	99.92%				
Z453	513.86	197.0	99.93%				
Total	1544.03	AVG >>	99.92%				
07-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
J.II.	MT/day	ppm	, ,				
Z451	470.56	250.0	99.92%				
Z452	580.03	234.4	99.92%				
Z453	515.62	197.0	99.93%				
Total	1566.21	AVG >>	99.92%				
08-Sep-24		CO2 order	Sulphur Recovery Efficiency				
Unit	CBA production MT/day	SO2 emission ppm	Sulphul Recovery EMICIENCY				
Z451	459.75	250.0	99.92%				
Z451 Z452	553.48	234.2	99.92%				
Z452 Z453	553.48	197.0	99.92%				
Total	1515.96	197.0 AVG >>	99.92%				
09-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	469.57	250.0	99.92%				
Z452	540.61	226.9	99.92%				
Z453	501.06	197.0	99.93%				
Total	1511.23	AVG >>	99.92%				
10-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
O. III	MT/day	ppm	, ,				
Z451	256.74	250.0	99.92%				
	499.90	219.7	99.92%				
Z452							
Z452 Z453	475.00	197.0	99.93%				

ANNEXURE - 4B

16-Sep-24				26-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	515.41	250.0	99.92%	Z451	508.13	250.0	99.92%
Z452	524.58	232.2	99.92%	Z452	506.96	212.6	99.92%
Z453	SHUT DOWN			Z453	SHUT DOWN		
Total	1049.70	AVG >>	99.92%	Total	1029.42	AVG >>	99.92%
17-Sep-24				27-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	500.56	250.0	99.92%	Z451	529.58	250.0	99.92%
Z452	552.63	238.5	99.92%	Z452	516.81	209.2	99.91%
Z453	SHUT DOWN			Z453	SHUT DOWN		
Total	1063.00	AVG >>	99.92%	Total	1061.42	AVG >>	99.92%
18-Sep-24				28-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	511.46	250.0	99.92%	Z451	521.60	250.0	99.92%
Z452	553.21	234.0	99.92%	Z452	521.16	239.5	99.92%
Z453	SHUT DOWN			Z453	SHUT DOWN		
Total	1074.21	AVG >>	99.92%	Total	1057.66	AVG >>	99.92%
19-Sep-24				29-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	29-3ep-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
UHIT	MT/day	ppm	- Included the state of the sta	Unit	MT/day	ppm ppm	January Links
Z451			00.019/	Z451			99.92%
Z451 Z452	520.31	250.0	99.91% 99.91%	Z451 Z452	533.95	250.0	99.92%
Z452 Z453	534.14	244.6	99.9170	Z452 Z453	513.17	214.4	33.3270
	SHUT DOWN	AVC >>	99 919/		SHUT DOWN	AVC >>	00.030/
Total	1063.69	AVG >>	99.91%	Total	1062.07	AVG >>	99.92%
20-Sep-24				30-Sep-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	519.55	250.0	99.92%	Z451	513.90	250.0	99.92%
Z452	538.81	262.9	99.92%	Z452	462.97	198.0	99.93%
Z453	SHUT DOWN			Z453	SHUT DOWN		
Total	1067.25	AVG >>	99.92%	Total	990.91	AVG >>	99.92%
21-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Offic	MT/day	ppm					
Z451	519.92	250.0	99.92%				
Z452	537.15	242.7	99.92%				
Z453		242.7	33.3270				
Total	SHUT DOWN 1070.33	AVG >>	99.92%				
TOLAT	10/0.33	AVG >>	99.92%				
22-Sep-24			6.11 8 5%				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	517.30	250.0	99.92%				
Z452	548.26	247.0	99.92%				
Z453	SHUT DOWN						
Total	1079.27	AVG >>	99.92%				
23-Sep-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	484.95	250.0	99.92%				
Z452	519.07	241.0	99.92%				
Z453	SHUT DOWN						
Total	1017.42	AVG >>	99.92%				
. 0.0.	2027.72		33.3270				
24-San 24							
24-Sep-24	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Unit			Sapiral recovery Efficiency				
	MT/day	ppm	00.032				
7451	468.51	250.0	99.92%				
Z451		244.9	99.92%				
Z452	541.42						
Z452 Z453	SHUT DOWN						
Z452		AVG >>	99.92%				
Z452 Z453 Total	SHUT DOWN 1023.32	AVG >>	99.92%				
Z452 Z453	SHUT DOWN 1023.32						
Z452 Z453 Total	SHUT DOWN 1023.32	AVG >>	99.92% Sulphur Recovery Efficiency				
Z452 Z453 Total 25-Sep-24	SHUT DOWN 1023.32						
Z452 Z453 Total 25-Sep-24	SHUT DOWN 1023.32	SO2 emission					
Z452 Z453 Total 25-Sep-24 Unit	SHUT DOWN 1023.32 CBA production MT/day 527.64	SO2 emission ppm 250.0	Sulphur Recovery Efficiency				
Z452 Z453 Total 25-Sep-24 Unit	SHUT DOWN 1023.32 CBA production MT/day	SO2 emission	Sulphur Recovery Efficiency 99.92%				

Reliance Industries Limited (Refinery Division), Jamnagar AMBIENT AIR QUALITY MONITORING (1st April '2024 to 30th September '2024)

(1 1)	prii 2024 to 30" Septe		
LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE
POLLUTANT - PM 2.5 (μg/m3)	VALUE	VALUE	VALUE
Liquid Rail Gantry	15	33	25
SSO STP	16	25	21
RRTF Control Building	15	31	25
ETP	17	32	24
Solid Parking Area	15	32	26
Central LAB	16	29	21
POLLUTANT - PM 10 (μg/m3)	10	29	21
Liquid Rail Gantry	33	52	16
SSO STP	34	49	46
	32	55	
RRTF Control Building			46
ETP	33	52	46
Solid Parking Area	33	52	46
Central LAB	34	52	44
POLLUTANT - SO2 (μg/m3)			
Liquid Rail Gantry	12	23	18
SSO STP	10	19	14
RRTF Control Building	12	24	18
ETP	10	22	16
Solid Parking Area	10	22	16
Central LAB	10	22	15
POLLUTANT – NOx (μg/m3)			
Liquid Rail Gantry	19	31	25
SSO STP	16	29	21
RRTF Control Building	20	31	26
ETP	18	32	24
Solid Parking Area	15	30	24
Central LAB	18	30	22
POLLUTANT – CO (mg/m3)			
Liquid Rail Gantry	1.1	1.55	1
SSO STP	1.09	1.63	1
RRTF Control Building	1.04	1.6	1
ETP	1.03	1.56	1
Solid Parking Area	1.03	1.65	1
Central LAB	1.07	1.53	1
POLLUTANT - NH3 (µg/m3)	1.0/	1.33	1
Liquid Rail Gantry	10	17	13
SSO STP	10	16	13
RRTF Control Building	10	18	13
ETP	10	17	13
Solid Parking Area	10	16	13
Central LAB	10	17	13
POLLUTANT - Benzene (μg/m3)	DET	DE	DET
Liquid Rail Gantry	BDL	BDL	BDL
SSO STP	BDL	BDL	BDL
RRTF Control Building	BDL	BDL	BDL
ETP	BDL	BDL	BDL
Solid Parking Area	BDL	BDL	BDL
Central LAB	BDL	BDL	BDL

Note: 1. Grab sampling for CO; 2. BDL: Below Detectable level

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

AMBIENT AIR QUALITY MONITORING (1st April '2024 to 30th September '2024)

LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE
POLLUTANT - PM 2.5 (μg/m3)			
Sulphur Recovery Unit	15	31	26
Sulphur Load Office	16	31	25
ZETP	15	30	25
RTF	16	30	21
POLLUTANT – PM 10 (μg/m3)			
Sulphur Recovery Unit	33	51	45
Sulphur Load Office	32	53	46
ZETP	33	54	46
RTF	32	51	43
POLLUTANT - SO ₂ (μg/m3)			
Sulphur Recovery Unit	10	22	14
Sulphur Load Office	11	26	19
ZETP	10	23	16
RTF	10	21	13
POLLUTANT – NO2 (μg/m3)			
Sulphur Recovery Unit	18	30	23
Sulphur Load Office	18	30	25
ZETP	18	30	24
RTF	10	30	21
POLLUTANT - NH3 (μg/m3)			
Sulphur Recovery Unit	10	16	13
Sulphur Load Office	10	18	13
ZETP	10	19	13
RTF	10	18	13
POLLUTANT – CO (mg/m3)			
Sulphur Recovery Unit	1.08	1.59	1.30
Sulphur Load Office	1.05	1.65	1.28
ZETP	1.1	1.52	1.32
RTF	1.09	1.53	1.29
POLLUTANT – Benzene (μg/m3)			
Sulphur Recovery Unit	BDL	BDL	BDL
Sulphur Load Office	BDL	BDL	BDL
ZETP	BDL	BDL	BDL
RTF	BDL	BDL	BDL

Note: 1. Grab sampling for CO; 2. BDL: Below Detectable level

Reliance Industries Limited. Jamnagar (C2 Complex)

AMBIENT AIR QUALITY MONITORING

(1st April '2024 to 30th September '2024)

LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE
POLLUTANT – PM2.5 (μg/m3)			
LC5	18	32	27
LC7	17	33	27
Nr ETP	18	33	26
FWP	18	32	26
POLLUTANT – PM10 (μg/m3)			
LC5	33	53	46
LC7	34	52	46
Nr ETP	33	54	46
FWP	34	53	47
POLLUTANT - SO2 (μg/m3)			
LC5	10	24	15
LC7	10	23	17
Nr ETP	11	24	17
FWP	10	20	15
POLLUTANT – NO2 (μg/m3)			
LC5	18	29	24
LC7	19	30	26
Nr ETP	20	31	26
FWP	15	29	25
POLLUTANT - NH3 (μg/m3)			
LC5	11	17	13
LC7	10	16	12
Nr ETP	10	17	13
FWP	10	17	13
POLLUTANT - CO (mg/m3)			
LC5	1.09	1.52	1
LC7	1.01	1.64	1
Nr ETP	1.05	1.67	1
FWP	1.04	1.53	1
POLLUTANT – Benzene (μg/m3)			
LC5	BDL	BDL	BDL
LC7	BDL	BDL	BDL
Nr ETP	BDL	BDL	BDL
FWP	BDL	BDL	BDL

Note: 1. Grab sampling for CO; 2. BDL: Below Detectable level

Reliance Industries Limited (Refinery Division, Jamnagar) Mobile Van Monitoring

(1st April '2024 to 30th September '2024)

LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE
POLLUTANT – PM2.5 (μg/m3)			
Gagva	9	50	26
Padana	17	46	31
Township	11	38	20
MTF	9	50	23
POLLUTANT – PM10 (μg/m3)			
Gagva	12	63	35
Padana	22	63	42
Township	15	50	27
MTF	12	63	30
POLLUTANT - SO2 (μg/m3)			
Gagva	3.0	12.9	5.4
Padana	3.3	11.6	5.4
Township	3.5	7.3	5.0
MTF	3.9	7.0	5.3
POLLUTANT – NO2 (μg/m3)			
Gagva	0.2	36.2	4.5
Padana	0.4	8.0	1.6
Township	0.2	26.5	4.0
MTF	0.2	6.0	2.1
POLLUTANT - NH3 (μg/m3)			
Gagva	2.44	26.93	5.91
Padana	4.86	26.93	7.57
Township	1.01	12.44	4.70
MTF	0.74	23.95	5.54
POLLUTANT - CO (mg/m3)			
Gagva	0.27	71.56	2.13
Padana	0.33	9.21	1.31
Township	0.46	2.50	1.28
MTF	0.42	45.85	3.24
POLLUTANT – Ozone (μg/m3)			
Gagva	0.75	24.35	6.24
Padana	1.98	24.35	7.62
Township	0.75	14.27	3.78
MTF	0.99	22.21	4.06

Note: Sampling Time:- 24 hrs avg.

Reliance Industries Limited (Refinery Division, Jamnagar) Treated Water Quality - Refinery ETP

(1st April '2024 to 30th September '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	рН		7.5	7.7	7.57
2	Suspended Solids	mg/l	10	13	11.33
3	Biochemical Oxygen Demand	mg/l	5.0	6.0	5.67
4	Chemical Oxygen Demand	mg/l	49.0	58.0	52.83
5	Oil & Grease	mg/l	1.8	2.6	2.08
6	Phenols (as C6H5OH)	mg/l	0.1	0.1	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	9.5	10.1	9.70
10	TKN	mg/l	11.9	12.4	12.08
11	Phosphorous (as P)	mg/l	1.0	1.4	1.13
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.
22	Fluoride (as F)	mg/l	N.D.	N.D.	N.D.

Note: N.D. - Not Detectable

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

Reliance Industries Limited (Refinery Division, Jamnagar) Brine Discharge Water Quality through Seawater Outfall

(1st April '2024 to 30th September '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	Temperature	оС	33	34	33.67
2	рН		7.9	8.1	8.00
3	Total Dissolved Solids	mg/l	59210	58697	59482
4	Total Suspended Solids	mg/l	11	1.9	14.0
5	Biochemical Oxygen Demand	mg/l	5	5.0	7.0
6	Chemical Oxygen Demand*	mg/l	*	*	*
7	Oil & Grease	mg/l	N.D.	N.D.	N.D.
8	Phenols (as C6H5OH)	mg/l	N.D.	N.D.	N.D.
9	Sulphide (as S)	mg/l	N.D.	N.D.	N.D.
10	Cyanide (as CN)	mg/l	N.D.	N.D.	N.D.
11	Ammonical Nitrogen	mg/l	9.9	10.7	10.28
12	TKN	mg/l	12.1	13.1	12.57
13	Phosphorous (as P)	mg/l	1.0	1.3	1.13
14	Chromium (hexavalent)	mg/l	N.D.	N.D.	N.D.
15	Chromium (Total)	mg/l	N.D.	N.D.	N.D.
16	Lead as Pb	mg/l	N.D.	N.D.	N.D.
17	Mercury as Hg	mg/l	N.D.	N.D.	N.D.
18	Zinc as Zn	mg/l	N.D.	N.D.	N.D.
19	Copper as Cu	mg/l	N.D.	N.D.	N.D.
20	Nickel as Ni	mg/l	N.D.	N.D.	N.D.
21	Vanadium as V	mg/l	N.D.	N.D.	N.D.
22	Benzene	mg/l	N.D.	N.D.	N.D.
23	Benzo (a) - pyrene	mg/l	N.D.	N.D.	N.D.

^{---*} As per APHA,AWWA Standard methods for the Examination of Water & Waste Water, the COD analysis may not be representative due to positive interference of high chloride content in the sample, hence it is not analysed.

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 – 7B

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ, Jamnagar) Treated Water Quality - ETP Outlet

(1st April '2024 to 30th September '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	рН		7.5	7.8	7.63
2	Total Suspended Solids	mg/l	11.0	14.0	12.50
3	Biochemical Oxygen Demand	mg/l	5.0	7.0	5.83
4	Chemical Oxygen Demand	mg/l	39.0	44.0	41.67
5	Oil & Grease	mg/l	1.3	1.9	1.55
6	Phenols (as C6H5OH)	mg/l	0.10	0.13	0.12
7	Sulphide (as S)	mg/l	0.0	0.0	0.00
8	Cyanide (as CN)	mg/l	0.0	0.0	0.00
9	Ammonical Nitrogen	mg/l	9.5	9.7	9.63
10	TKN	mg/l	10.8	12.8	11.45
11	Phosphorous (as P)	mg/l	1.1	1.4	1.17
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

Reliance Industries Limited (Unit of Reliance Jamnagar SEZ, Jamnagar) Brine Discharge Through Seawater Outfall Water Quality

(1st April '2024 to 30th September '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	Temperature	⁰ C	33	34	33.67
2	рН		7.9	8.1	8.02
3	Total Dissolved Solids	mg/l	58967	59367	59121
4	Total Suspended Solids	mg/l	11	13	12
5	Biochemical Oxygen Demand	mg/l	1.9	6.0	4.65
6	Chemical Oxygen Demand	mg/l	*	*	*
7	Oil & Grease	mg/l	N.D.	N.D.	N.D.
8	Phenols (as C6H5OH)	mg/l	N.D.	N.D.	N.D.
9	Sulphide (as S)	mg/l	N.D.	N.D.	N.D.
10	Cyanide (as CN)	mg/l	N.D.	N.D.	N.D.
11	Ammonical Nitrogen	mg/l	10.2	11.2	10.53
12	TKN	mg/l	12.2	13.2	12.70
13	Phosphorous (as P)	mg/l	1.0	1.3	1.07
14	Chromium (hexavalent)	mg/l	N.D.	N.D.	N.D.
15	Chromium (Total)	mg/l	N.D.	N.D.	N.D.
16	Lead as Pb	mg/l	N.D.	N.D.	N.D.
17	Mercury as Hg	mg/l	N.D.	N.D.	N.D.
18	Zinc as Zn	mg/l	N.D.	N.D.	N.D.
19	Copper as Cu	mg/l	N.D.	N.D.	N.D.
20	Nickel as Ni	mg/l	N.D.	N.D.	N.D.
21	Vanadium as V	mg/l	N.D.	N.D.	N.D.
22	Benzene	mg/l	N.D.	N.D.	N.D.
23	Benzo (a) - pyrene	mg/l	N.D.	N.D.	N.D.

^{---*} As per APHA, AWWA Standard methods for the Examination of Water & Waste Water, the COD analysis may not be representative due to positive interference of high chloride content in the sample, hence it is not analysed.

Remarks: 1) Minimum Detectable Limit: Sulphides=0.1mg/l, Cyanide=0.01mg/l,

Metals (Cr, Pb, Hg, Zn, Ni, Cu,8 V)=0.01mg/l, Benzene=0.01mg/l, Benzo(a)Pyrene=0.01mg/l,

2) N.D.: Not Detectable

ANNEXURE – 7C

Reliance Industries Limited, Jamnagar Treated Water Quality - C2-COMPLEX ETP

(1st April '2024 to 30th September '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	рН		7.5	7.8	7.60
2	Total Suspended Solids	mg/l	10	14	11.17
3	Biochemical Oxygen Demand	mg/l	5.0	8.0	6.17
4	Chemical Oxygen Demand	mg/l	39.0	46.0	42.00
5	Phenols (as C6H5OH)	mg/l	0.1	1.9	0.41
6	Sulphide (as S)	mg/l	N.D.	N.D.	N.D.
7	Cyanide (as CN)	mg/l	N.D.	N.D.	N.D.
8	Chromium (hexavalent)	mg/l	N.D.	N.D.	N.D.
9	Chromium (Total)	mg/l	N.D.	N.D.	N.D.
10	Fluoride (as F)	mg/l	0.2	0.2	0.2

Remarks: 1) Minimum Detectable Limit: Sulphides=0.1mg/l, Cyanide=0.01mg/l, Metals (Cr, F) =0.01mg/l 2) N.D.: Not Detectable

ANNEXURE – 8A

Reliance Industries Limited. (Refinery Division) Jamnagar. NOISE QUALITY MONITORING RESULTS

Sr. No.	Area /Location	Noise Level (dBA) Day-time		Noise Level (dBA) Night-time	
		Minimum Value	Maximum Value	Minimum Value	Maximum Value
1	Back side of Laboratory	47	55	40	50
2	Storm water pond no. 2 near fire station	45	57	43	51
3	Near ETP	58	67	52	58
4	Near Main Gate	52	65	44	49
5	Near Back Boundary Wall (PP Gate)	52	60	48	53
6	In front of Sulphur loading plant	53	65	50	55
7	Near flare stack	49	62	53	58

Reliance Industries Ltd. (Unit of Reliance Jamnagar SEZ). Jamnagar. NOISE QUALITY MONITORING RESULTS

Sr. No.	Area /Location	Noise Lev Day-	` /	Noise Level (dBA) Night-time			
		Minimum Maximum Value Value		Minimum Value	Maximum Value		
1	Near Cargo Gate 1	51	58	39	47		
2	Near MMC, Avenue L	48	56	42	48		
3	Near PP Ware House, Avenue L	58	65	51	55		
4	Near Pond 7	59	66	42	48		
5	Near Cargo Gate -2	51	65	46	51		
6	Near Sulfur Gate	57	66	48	52		
7	Near Clean Fuel Project Nr. Avenue F	57	66	51	57		

Reliance Industries Ltd. Jamnagar. (J3 Complex). NOISE QUALITY MONITORING RESULTS

Sr. No.	Area /Location		evel (dBA) y-time	Noise Level (dBA) Night-time			
		Minimu m Value	Maximum Value	Minimum Value	Maximu m Value		
	Px4 Complex						
1	SO	55	59	50	53		
2	в/н ст	55	56	53 55			
3	Scarp Bin	53	55	46	50		
4	Crystalliser	54	58	53	55		
	C2 Complex						
1	LC 5	50	53	44	46		
2	LC 7	45	48	39	43		
3	ETP	56	58	47	51		
4	FWPH	54	55	44	46		

Reliance Industries Ltd. Jamnagar Marine Water Quality Analysis Report

(1st April '2024 to 30th September '2024)

Sample location : Samples near Diffuser (Sea water)

Parameters	UOM	A	Sampl Above Dif			Sample 10 cream of l		Sample 100 m Downstream of Diffuser			
		Min	Max	AVG	Min	Max	AVG	Min	Max	AVG	
рН	-	7.8	8.2	8.0	7.9	8.2	8.0	7.9	8.2	8.0	
Conductivity	μS/cm	54971	56248	55660	55650	57550	56510	55330	56394	55871	
Total Dissolved Solids (TDS)	mg/l	34357	39430	37643	35525	39487	38026	34799	39532	37855	
Total Suspended Solids (TSS)	mg/l	3.8	4.8	4.2	3.5	4.4	4.0	3.1	4.2	3.8	
Chemical Oxygen Demand (COD)	mg/l	12.0	14.0	13.0	12.0	15.0	13.7	11.0	14.0	12.3	
Biochemical Oxygen Demand (BOD)	mg/l	6	6	6	8	8	8	7	7	7	
O & G	mg/l			N.D.			N.D.			N.D.	
Sulphide	mg/l			N.D.			N.D.			N.D.	
Phenol	mg/l			N.D.			N.D.			N.D.	

Remarks: 1) N.D.: Not Detectable

²⁾ Minimum Detectable Limit: Oil & Grease=0.01mg/l, Sulphides=0.1mg/l, Phenol=0.1mg/l.

^{*}APHA - AWWA Standard methods are followed for the Examination of Water & Waste Water, the COD analysis is a representative value due to positive interference of high chloride content in the sample.

Reliance Industries Ltd. (Refinery Division), Jamnagar Treated Water Quality – MTF ETP

(1st April '2024 to 30th September '2024)

Sr.No	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	рН		7.6	8.0	7.75
2	Total Suspended Solids	mg/l	11	14	12.67
3	Biochemical Oxygen Demand	mg/l	5.0	6.0	5.50
4	Chemical Oxygen Demand*	mg/l	*	*	*
5	Oil & Grease	mg/l	1.9	2.8	2.27
6	Phenols (as C6H5OH)	mg/l	0.1	0.1	0.12
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	9.8	10.2	9.98
10	TKN	mg/l	12.4	13.4	12.78
11	Phosphorous (as P)	mg/l	1.0	1.2	1.10
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.

Note: N.D. - Not Detectable

As per APHA, AWWA Standard methods for the Examination of Water & Waste Water, the COD analysis may not be representative due to positive interference of high chloride content in the sample, hence it is not analysed.

ANNEXURE – 11

	Head office	· · ·	A						R	GROUND ELIANCE IN		SAMPLE-V		R									NETEL
	00	o S	Parameters ↓	Unit	RPL-4	RPL-S	RPL-7	RPL-9	RPL-10	RPL-11	RPL-15	RPL-16	RPL-18	RPL-22	RPL-24	RPL-41	Katalus	Setalus	Megaugom	Meghpar	Kanaghikari	Derachikari	
	n = 2 :	d 5	Locations→		Sapar	Saper	Navagaon	Mavagaon	_		Padata	Padana	Mavania	Jogwad	Gagwa	Pipli	-	-	-	-	-	-	
<u> </u>	NETEL (I) LTD., Tel. : 7208097	90 2	Colour	Co.Pt.Scale	7.6 Coleutess	7,5 Colouriess	7.6 Calcuriess	7.4	7.3	7.6	7.5	7.6	7,4	7.3	7.5	8.1	7.6	7.5	7.8	7.5	7.6	7.5	
	7 -	12 50 4	The	mat	769	758	784	Colouriess 844	Coloutiess 662	Calcutess 838	Calourless		Coleuriess	Colourtess	Caloutiess	_	Colourless	Colourless	Celouriess	Coleviess	Colourless	Coloutiess	X.
	200	y Building.	(Tjotal ammonia - N	mgif	4,4	4.6	4.3	4.5	4.6	4.6	834 4.5	987	744	726	732	1794	692	867	785	732	762	761	
7	80.7	£ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	£00	mgt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	4.6 <10	4.5 <10	4.7 <10	4.4 <10	4.6	4.5	4.6	4.4	
(6	(I) LTD., W -4 208097693	3 3	Cotal ammonia • N	mg/l	234	225	230	225	232	242	236	362	269	224	228	234	262	248	<10 214	<10 226	<10 220	<10	
ā	769	6 37	Solal Hardness (as Caco3) Sulphate (as SO4)	mg/l	128	131	136	128	123	130	131	144	118	121	128	122	131	117	125	116	212	227 121	
2	-408 3 / 7.	Z 4	Nitrate NO3	mg/l	55	51	54	50	38	55	58	52	62	53	55	75	69	50	64	56	51	58	
=	72.8	व	Nitrate-NO3 Fluoride-F	mg/l mg/l	11	12	11	11	13	12	11	12	11	11	10	13	12	13	11	11	13	11	
c d	08 R	-11	Iron-Fe	mg/l	0.4 ND	0,5 ND	0.6 ND	0,7	0.4	0,5	0.4	0.7	0.5	0.5	0,6	0.5	0,6	0.5	0.4	0,5	0.4	0.5	
ень Шименный.	08, Rabale MI / 7208097694	S 1	I Iron-Fe Sulphidh (as H2S)	mg/l	ND ND	ND	ND ND	ND ND	ND	NO	ND	ND	ND	ND	_ND	ND	ND	ND	ND	ND	ND	ND	
5	760 le	≨ 1	Calcium-Ca	mg/l	159	151	148	157	148	ND 158	ND 162	ND 190	ND 195	ND 148	ND 153	ND	ND	ND	ND	ND	ND	ND	
	MIDC. 94 / 72	E 1	Magnesium-Mg	ng/l	124	119	117	129	126	131	119	161	151	148	152	146	223	218	159	181	162	178	
ā	770	g 1	Copper-Cu	mgt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	174 ND	148 ND	118 ND	139 ND	141 ND	139 ND	
2	7208097	O7 16	Nickel - Ni	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	
ā	TTC 0809	71	Lead - Pb	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
. 1	97	ğ-1	Cyanide - CN	mg1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
E As	Indus 7692	6 3	Dhanal Dhanal	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NO	
EX S	Industrial 7692 / 72	8	Phenol	mg/l	ND	ND	ND	ND	ND	ND	ND	NO	ND	ND	ND								
/ 7208097695 netel-india.com CIN : U74999	Area, Navi Mum 08097695 Jindia com CIN	Marg, (New Marine Lines), Mumbai - 400 020.	TOP NETEL (INDIA) LTD OMPRAKASH YADAV (Project Incharge)				N A TABILITY OF THE PARTY OF TH	NEW WARMEN	**	4									NE (Tec	ELIMA 6/ hinical Mai	ALVI nager)		
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Expenditure for Environmental Protection Measures

Sr. No.	Reliance Jamnagar Manufacturing Complex	*Expenditure Amount (Rs.)
1	DTA Refinery	9,64,65,261
2	SEZ Refinery	7,26,01,682
3	J3 Complex (PX4 & C2 complexes)	1,92,41,101
	Total	Rs. 18,83,08,044

^{*}Expenditure Amount for Environment Management System which includes expenses incurred for operation cost of ETP; APC equipment; waste management etc

Reliance Industries Ltd. Jamnagar

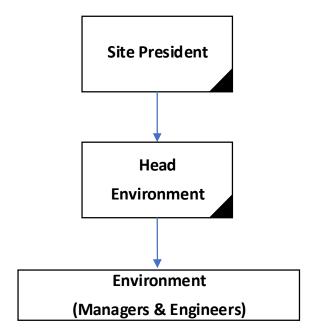
Sample: Monitoring of Leak Detection & Repair Procedure (LDAR) conducted during the last Quarter

				LDAR Sun	nmary she	et								
Complex:-		AROMATICS	- DTA											
Period (Year, Quarter):- Q3	July 2024 to Sept 2024													
Plant Name and Unit no	Equipment Type	Last monitoring period (Year, Quarter)	No Of Sources identified	Inaccesible & Insulated Sources	No. of sources checked	No of leaks	% Leak	No. of leaks attended	No. of leaks to be attended during shutdown	Remarks				
Aromatics	Valves	July 2024 to Sept 2024	1380	108	1272	3	0.24	3	0					
Aromatics	Flanges	July 2024 to Sept 2024	12010	562	11448	0	0.00	0	0					
Aromatics	Pump Seals	July 2024 to Sept 2024	210	3	207	0	0.00	0	0					
Aromatics	Compressor Seals	July 2024 to Sept 2024	15	0	15	0	0.00	0	0					
Aromatics	PRVs	July 2024 to Sept 2024	285	0	285	0	0.00	0	0					
Aromatics	Heat Exchangers	July 2024 to Sept 2024	171	0	171	0	0.00	0	0					
	Total		14071	673	13398	3	0.24	3	0					

^{*}All inaccessible sources for LDAR completed

Reliance Industries Ltd. Jamnagar

Organogram of Environment Department





Environment Policy

Protection of environment is of prime concern and a core business value at Reliance Industries Limited (RIL). With a leading role in providing competitive goods and services in the materials and energy value chains and infrastructure, RIL is conscious of its responsibility towards the needs of the communities in which it operates by creating, maintaining and ensuring a safe and clean environment for sustainable development.

In particular, RIL is committed to:

- 6 Comply with all applicable laws, regulations and conditions granted in environmental and forest clearances, as well as take any additional measures considered necessary to go beyond compliance.
- 6 Implement an environmental compliance management process to capture deviations and report the violations observed by the authorities to the HSE committee of
- 6 Follow an international environmental management system, governance process with clearly defined responsibilities in order to achieve continual improvement and communicate environmental performance to the stakeholders.
- Design new facilities and conduct operations with preventive approach and industry best practices to avoid adverse impacts to the human health and the environment.
- Conserve natural resources by their responsible and efficient use in all our operations.
- Take appropriate measures to prevent environmental incidences and maximize recycle to reduce wastes, discharges and emissions.
- Promote tree plantation, green surrounding and protection of biodiversity at our locations to be in harmony with nature.
- Ensure appropriate training and awareness on environmental systems, procedures, best practices and on shared responsibility towards environmental protection among employees, contractors, suppliers and customers.
- Communicate this policy to the stakeholders.

Mukesh D. Ambani



Health, Safety, Environment and Quality Policy Jamnagar Manufacturing Division

At Reliance, prevention of injury, occupational ill health, pollution and meeting customer requirements is an integral part of our business management. As one of the major manufacturing complex of Reliance in the energy value chain, Jammagar Refinery is fully conscious of its responsibility towards operation in safe manner to avoid harm to human being, interested parties & environment. We endeavour to enhance customer satisfaction for continual development and sustain organizational excellence through visionary leadership & innovative efforts in line with:

- Health, Safety and Environmental Policy &
 Quality Policy signed by the Chairman

In particular, we are committed to:

- Comply with applicable HSEQ legal & other requirements and any additional measures considered necessary.
- Follow a structured Health, Safety, Environment and Quality Management System in order to achieve continual performance improvements.

- Setting up of objectives and targets for
 Prevention of Injuries, Occupational illness and incidents.
 Improvements in fuel Consumption and utilization of natural resources.
 Reduction in power Consumption, waste generation and carbon-dioxide emission.
 Continually sustaining & improving quality.
 Determining Risk and Opportunities.
- Ensure every employee's responsibility in Health, Safety, Environment and Quality
- Organise appropriate operating practices and training.
- Promote awareness amongst contractors, suppliers and customers for shared responsibility towards HSEQ Performance.

Surinder S. Saini Site President 2024

- Make our HSEQ commitment available to public.
- Promote Consultation and Participation of workers.

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