

CIN: L17110MH1973PLC019786

Dated: 21st May '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: EC Compliance Status Reports and Six-Monthly Monitoring Reports of RIL Refinery cum Petrochemical Complexes for the period ending 31st March '2024.

Dear Sir,

Please find herewith the EC compliance status reports (Annexure I) and Six-monthly monitoring reports (Annexure II) of RIL Refinery cum Petrochemical Complexes which includes CRZ /Environment clearance for the period 01st October '2023 to 31st March '2024.

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

Thanking you,

Yours truly,

For Reliance Industries Limited

Authorized Signatory

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

## Acknowledgment

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

#### 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	NA
Entity name as per PAN	NA

# **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

# **Details of Production and Project Area**

Name of Entity / **Corporate Office** 

RELIANCE INDUSTRIES LIMITED

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

# **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
1	AIR QUALITY	Adequate facilities for monitoring the fugitive emission should be

	MONITORING AND PRESERVATION	provided and data recorded should be submitted every to CIF / SPCB and every six months to the Ministry of and Forests.	
Proced	Submission: Complied lure and facilities for Fugitive emissio orded and submitted to GPCB.	n monitoring is established and the results of monitoring	Date: 27/05/2024
2	MISCELLANEOUS	Designing of LPG spheres including the exclusion zo finalized in consultation and approval of the Chief Insp Explosives, Nagpur and the State Pollution Control Bo impact of fire and explosion should not cross the plant	pector of ard. The
Designare app	proved by the Chief Inspector of Explo	ading the exclusion zone of storage tanks & spheres and osives, Nagpur. The impact of fire and explosion have ied out and does not cross the plant boundaries.	Date: 27/05/2024
3	WATER QUALITY MONITORING AND PRESERVATION	Ground water should not be tapped for industrial as we domestic uses including the township. Alternate source finalized keeping in view its impact on other competen	e has to be
Ground meet tl		ndustrial use. Desalination plants have been installed to complex. Narmada water is received through approval d (GWIL).	Date: 27/05/2024
4	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. Recycling treated effluent to the maximum extent possible should	of / reuse of the
State-c faciliti		is provided with Primary, Secondary and Tertiary of the treated water. The treated water meets all the	Date: 27/05/2024
5	WATER QUALITY MONITORING AND PRESERVATION	Adequate number of influent and effluent quality mo stations have to be planned with adequate facilities spe parameters like phenols, sulphides, oil and grease, susp BOD, COD, pH and flow. The effluent discharge point decided in consultation with NIO and the State Pollution Board.	cially for pended solids, t should be
All the	e effluent parameters are monitored at Please refer Annexure 7-A. Discharge	monitored in the central laboratory (NABL approved) set t source of generation and at outlet of effluent treatment of effluent from the complex is at a point decided in igned diffuser. The consent from GPCB has been	Date: 27/05/2024
plant. l consul	d for this discharge.		
plant. l consul granted		System to recover oil from the oily sludge and incine residues should be provided.	ration of the
plant. I consul granted  6  PPs ( The Oil heavy	WASTE MANAGEMENT  Submission: Complied ily sludge recovered from ETP is re-presented.		Date: 27/05/2024

			Date:
	<b>Submission:</b> Complied lied with. Authorisation for Storage	e, Handling & disposal of HW is obtained from GPCB.	27/05/2024
8	Statutory compliance	A solid waste management plan should be submitted for approval within a period of six months. In case of I should be approved by the State Government.	
	Submission: Complied blid waste management plan has been	en submitted to the Ministry as per the requirement.	Date: 27/05/2024
)	MISCELLANEOUS	Cutting of trees from the project sites should be kept while developing the site and planning the infrastructu	
	Submission: Complied roject is constructed on barren land	where green belt has been established.	Date: 27/05/2024
10	MISCELLANEOUS	The industrial township should not be located in the direction with respect to the refinery.	down wind
	Submission: Complied lied with.		Date: 27/05/2024
11	MISCELLANEOUS	Adequate sanitation facilities and cooking fuel shoul to the labourers to avoid tree cutting and nuisance in the	
	Submission: Complied lied with. The project is already con	mpleted.	Date: 27/05/2024
12	MISCELLANEOUS	Affected persons due to acquisition of agricultural la should be properly compensated as per the State Government.	
	Submission: Complied lied with. The project is already con	mpleted.	Date: 27/05/2024
13	MISCELLANEOUS	The project Authorities must strictly adhere to the sti by the Gujarat Pollution Control Board and the State C	
Being	Submission: Being Complied complied with. The summary mon on a monthly basis.	itoring report, Annexure II, is based on reports submitted to	Date: 27/05/2024
14	MISCELLANEOUS	Any expansion of the Plant or storage facilities either existing / proposed products mix or new products or chapipeline route / location of SPM site etc. can be taken the prior approval of this Ministry.	nange in the
	Submission: Complied lied with.		Date: 27/05/2024
	AIR QUALITY		

# PPs Submission: Complied

Regular monitoring & measurement are carried out for measuring SO2 emission from the refinery complex which is below the limit prescribed. Please refer Annexure I-A showing average daily emission quantity of SO2. The Daily SO2 emission during 2nd Half of FY2024 varied between 20.92 and 22.44 MT/day.

Date: 27/05/2024

AIR QUALITY 16 MONITORING AND **PRESERVATION** 

The gaseous emission from various process units should conform to the standards prescribed by the concerned authorities, from time to time. At no time the emission level should go beyond the stipulated standards. In the event of failure of any pollution control system adopted by the unit the respective unit should be shut down immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.

**PPs Submission:** Complied

The limits for gaseous emissions are prescribed by Gujarat Pollution Control Board (GPCB). The emission parameters are within the standards prescribed at all times. The recommended procedure for ensuring compliance to emission limits is followed. Please refer the monitoring reports annexed as Annexure 2-A

Date: 27/05/2024

AIR QUALITY MONITORING AND 17 **PRESERVATION** 

Sulphur recovery unit having efficiency of not less than 99% should be provided.

PPs Submission: Complied

Sulphur recovery unit efficiency is complying. Please refer Annexure 4-A for SRU Efficiency.

Date: 27/05/2024

AIR QUALITY 18 MONITORING AND **PRESERVATION** 

Low NOx burners to avoid excessive formation of NOx should be provided.

PPs Submission: Complied

Low NOx burners are provided for reduction of NOx.

Date: 27/05/2024

AIR QUALITY 19 MONITORING AND **PRESERVATION** 

At least six ambient air quality monitoring stations should be set up in the refinery area in the down wind direction as well as where maximum ground level concentrations of SO2, NOx, HC and SPM are anticipated. The monitoring network should be decided based on the modelling exercise to represent the short term GLCs. A mobile van with adequate facilities to monitor ambient air quality outside the refinery premises should also be planned.

**PPs Submission:** Complied

Complied with. Stipulated number of AAQM stations have been setup. Please refer Annexure 5-A for AAQMs results. Mobile Ambient Air Quality Van has been established & operated at locations outside the refinery. Please refer Annexure 6.

Date: 27/05/2024

**AIR QUALITY** 20 MONITORING AND **PRESERVATION** 

Fugitive emissions of HC from storage tanks, crude oil tanks etc. should be minimized by adopting necessary measure such as double seal floating roof tanks. The emission should be controlled so as to ensure that the NMHC levels outside the refinery premises does not exceed 160 ug / M3.

PPs Submission: Complied

Complied with. All the storage tanks with emission control measures are provided. They are compliant to the Refinery standards Notified on dtd 18.03.2008. Complied.

Date: 27/05/2024

Marine/Coastal 21

A. SPM and Sub-Sea Pipeline: The marine environment should be regularly monitored for the water quality (temperature, petroleum

		hydrocarbons, phenols, sulphides, total organic carbon, quality (trace elements, petroleum hydrocarbons, TOC size) and biological parameters (primary productivity, lquality and growth, bio-mass, phytoplankton and zoopl	and sedimen benthos, fish
A marin biologic upstrear	al parameters in the marine envi in & downstream of the diffuser,	ed by NIO regularly. For monitoring all physical, chemical & ironment. Regular analysis is carried out of the seawater both, for monitoring parameters temperature, petroleum organic carbon, salinity etc Please refer Annexure 9.	Date: 27/05/2024
22	Marine/Coastal	A. SPM and Sub-Sea Pipeline: A Disaster Manageme be prepared to take care of any oil leakage in the Gulf i with the Coast Guards and the Marine Park Authorities contingency plan should be drawn and adequate faciliti for combating the oil spills.	in consultatio s. Oil Spill
Complie Coast G	uard has approved the Oil Spill	ent Plan and Oil Spill Contingency Plan are prepared. Indian Contingency Plan. Marine National Park authorities are also nt between Oil Handling Agencies of the Gulf of Kutch	Date: 27/05/2024
23	Marine/Coastal	A. SPM and Sub-Sea Pipeline: The project proponent formulate a management plan for coral reefs and mang afforestation in the inter-tidal region of Vadinar Sikka with the Marine Park Authorities.	rove
RIL has acknowl submitte Manage	ledged by them. However, there ed. Mangrove plantation of 875 a	agement plan to the MNP Authorities. The same has been as is no action recommended to RIL against the plan acres has been carried out along with MNP authorities. Authorities & RIL against the plan acres has been carried out along with MNP authorities.	Date: 27/05/2024
24	Marine/Coastal	A. SPM and Sub-Sea Pipeline: No discharge of crude should be done in the Gulf. In case washing is done, ad ballasting facilities with proper treatment should be pro-	
	<b>ubmission:</b> Complied harge of crude oil washings is peoperations.	ermitted at the marine facilities, as a procedure set up for	
marine o	harge of crude oil washings is pe	A. SPM and Sub-Sea Pipeline: Necessary approval for of forest land should also be obtained from the concern	Date: 27/05/2024
marine of 25  PPs S	harge of crude oil washings is peoperations.  Marine/Coastal  ubmission: Complied	A. SPM and Sub-Sea Pipeline: Necessary approval for	Date: 27/05/2024
25  PPs S Complie	harge of crude oil washings is peoperations.  Marine/Coastal  ubmission: Complied	A. SPM and Sub-Sea Pipeline: Necessary approval for	Date: 27/05/2024  or acquisition and authorities  Date: 27/05/2024  a should be ion phase aft
25 PPs S Complie	harge of crude oil washings is perperations.  Marine/Coastal  ubmission: Complied ed with.  Marine/Coastal	A. SPM and Sub-Sea Pipeline: Necessary approval for of forest land should also be obtained from the concern A. SPM and Sub-Sea Pipeline: No dredging in the sea undertaken except where unavoidable during construct providing full details and obtaining the approval of Chi	Date: 27/05/2024  or acquisition and authorities  Date: 27/05/2024  a should be ion phase aft

		filling in all storage facilities should be provided to minemissions.	
	Submission: Complied lied with.		Date: 27/05/2024
28	AIR QUALITY MONITORING AND PRESERVATION	B. CRUDE OIL TERMINAL (COT): Hydrocarbon I detected at regular intervals including the pipelines, at valves, blinds, caps, plugs and pressure relief devices u hydrocarbon monitor and corrective measures should be immediately to stop fugitive emissions.	the joints, using portable
LDAR notific		llowed regularly in accordance with MoEF tions undertaken immediately. Please refer Annexure	Date: 27/05/2024
29	WATER QUALITY MONITORING AND PRESERVATION	B. CRUDE OIL TERMINAL (COT): Effluent treatment for the oil based effluent should be provided so that the meets the MINAS. Regular monitoring should also be pH, Oil, Phenol, sulphate and BOD and record maintain	e treated wate carried out fo
ETP th prescri		luent and the treated effluent meets the norms he treated effluent is carried out. The treated effluent ms. Please Refer Annexure 10.	Date: 27/05/2024
30	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 rization for Storage, Handling & disposer the HW Rules 1989 and its subsequen	al of HW is obtained from SPCB. The handling of HW nt amendments.	Date: 27/05/2024
Authoris as po	rization for Storage, Handling & dispos		27/05/2024 f suitable v sludge (crudio-surfactant
Authoris as possible as possib	waste Management  Waste Management  Waste Management  Waste Management  Submission: Complied  ions endeavours to minimise sludge fro	B. CRUDE OIL TERMINAL (COT): Melting pits of design should be provided for recovery of oil from oily oil tanks bottom). The possibility of using chemicals/b for oil recovery may be explored and report submitted Ministry.  om tank bottom by adopting BAT. Melting pits have of oil in the sludge. The sludge generated is collected,	f suitable v sludge (crudio-surfactant to this
Authoris as po	waste Management Waste Management Waste Management Waste Management Waste Management Submission: Complied tions endeavours to minimise sludge from the been effective due to low oil content	B. CRUDE OIL TERMINAL (COT): Melting pits of design should be provided for recovery of oil from oily oil tanks bottom). The possibility of using chemicals/b for oil recovery may be explored and report submitted Ministry.  om tank bottom by adopting BAT. Melting pits have of oil in the sludge. The sludge generated is collected,	f suitable sludge (crucio-surfactant to this  Date: 27/05/2024
Authoris as possible as possib	WASTE MANAGEMENT  Submission: Complied tions endeavours to minimise sludge from the been effective due to low oil content and sent for Co-processing in cement k  WASTE MANAGEMENT  WASTE MANAGEMENT  Submission: Complied	B. CRUDE OIL TERMINAL (COT): Melting pits of design should be provided for recovery of oil from oily oil tanks bottom). The possibility of using chemicals/b for oil recovery may be explored and report submitted Ministry.  om tank bottom by adopting BAT. Melting pits have of oil in the sludge. The sludge generated is collected, illn/incineration.  B. CRUDE OIL TERMINAL (COT): Raw sludge sh in lagoons having impervious lining with suitable run of control facilities.	f suitable sludge (crudio-surfactant to this  Date: 27/05/2024

Compl	Submission: Complied ied with. The Oily sludge is sent eith ration facility for disposal.	ner for Co-processing in Cement Kiln or Common	Date: 27/05/2024
34	WATER QUALITY MONITORING AND PRESERVATION	B. CRUDE OIL TERMINAL (COT): The ground should be carried out around sludge lagoons and land	
	Submission: Complied plicable due to above pt. 5 and 6.		Date: 28/05/2024
35	GREENBELT	B. CRUDE OIL TERMINAL (COT): A green be width (at least 50 m) and density should be develop crude oil terminal site.	
		idth has been developed and is maintained all around the	Date: 27/05/2024
36	MISCELLANEOUS	C. CRUDE OIL & PRODUCTS PIPELINE: Nece for acquiring forest land (ROW) should be obtained concerned authorities. The route of the pipelines sh so as to avoid the corals, mangroves, forest lands, e that the sensitive areas are not adversely affected.	from the ould be selected
	Submission: Complied ied with.		Date: 27/05/2024
37	MISCELLANEOUS	C. CRUDE OIL & PRODUCTS PIPELINE: The should ensure minimum cutting of trees, damage to vegetation, soil erosion and minimum disturbance t services during laying of pipeline and construction stations.	the native o the existing
	Submission: Complied ied with. The refinery complex is est	tablished on Barren Land.	Date: 27/05/2024
38	MISCELLANEOUS	C. CRUDE OIL & PRODUCTS PIPELINE: A provegetation should be undertaken to compensate for cover.	
Compl	Submission: Complied ied with. No re-vegetation required a green has been established.	as refinery is established on barren land. However, a	Date: 27/05/2024
	GREENBELT	C. CRUDE OIL & PRODUCTS PIPELINE: All a pump site, adequate green belt should be developed	
39	OREENDELI	pump site, adequate green bent should be developed	
PPs S	Submission: Complied plicable.	pump site, adequate green beit should be developed	Date:
	Submission: Complied	C. CRUDE OIL & PRODUCTS PIPELINE: Floor spills should be collected and treated properly before	Date: 28/05/2024

41	Risk Mitigation and Disaster Management	C. CRUDE OIL & PRODUCTS PIPELINE: Risk assalong with the on-site and off-site emergency prepared should be submitted to this Ministry within one year for	ness plans
	Submission: Complied ied with.		Date: 27/05/2024
42	MISCELLANEOUS	The labourers or contractor should leave the place aft of the work at site to avoid creation of slum in the adjothe projects.	
	Submission: Complied ied with. The project is already comple	eted.	Date: 27/05/2024
43	Noise Monitoring & Prevention	The overall noise levels in and around the plant area well within the standards (85 DBA) by providing acoustilencers etc. around the noise generating sources.	
Appropincludi	ng provision of acoustic hoods, silence	e provided to identified sources of noise generation ers, enclosures etc. wherever necessary The overall tept well within the standards. Please refer Annexure 8-	Date: 27/05/2024
44	GREENBELT	A green belt plan with adequate width and density all 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 planted		overed by tree plantation. Over 400 species have been sity. Additionally, 875 acres of mangrove plantation has	Date: 27/05/2024
45	MISCELLANEOUS	A long term study to assess the impacts due to emissi pollutants from the refinery on the mangroves should be and report submitted after the refinery becomes operati study should be conducted by a reputed institution or be by the Department of Environment, Government of Gu	oe undertaken ional. The oody approved
PPs :	MISCELLANEOUS  Submission: Complied ic monitoring by NIO of entire marine of	pollutants from the refinery on the mangroves should be and report submitted after the refinery becomes operation study should be conducted by a reputed institution or be by the Department of Environment, Government of Gu	oe undertaken ional. The oody approved ijarat.  Date:
PPs ?	Submission: Complied	pollutants from the refinery on the mangroves should be and report submitted after the refinery becomes operation study should be conducted by a reputed institution or be by the Department of Environment, Government of Gu	Date: 27/05/2024  ate, Inspector ned and copic ry. On-site an & 14 of the
Periodi 46 PPs S Compl approv Prepare	Submission: Complied ic monitoring by NIO of entire marine of Risk Mitigation and Disaster Management  Submission: Complied ied with. Comprehensive On-site Emerged by the nodal agencies. These are upon the complex of the contract of the c	pollutants from the refinery on the mangroves should be and report submitted after the refinery becomes operation study should be conducted by a reputed institution or be by the Department of Environment, Government of Guecology and mangroves is carried out.  Necessary approvals from Chief Explosives Directors of Factories, Fire Safety Inspector, etc. should be obtain of the approval letters be made available to this Ministroff-site Emergency Preparedness Plans under Rule 13 of Hazardous Chemical Rule, 1989 should also be prepared approved by the Nodal Agency.  Agency Preparedness Plans have been developed and dated at regular intervals. Off-site Emergency Plans and	Date: 27/05/2024  ate, Inspector ned and copic ry. On-site an & 14 of the

	technical personnel, who will directly report to the Chi	ef Executives
ubmission: Complied itoring, sampling and analysis of envry.	vironmental parameters is outsourced to MoEF approved	Date: 27/05/2024
MISCELLANEOUS	suitably qualified people to carry out various functions	and should b
ed by suitably qualified engineers is	set-up. The environment cell is responsible for all	Date: 27/05/2024
Human Health Environment		
ords are maintained. During last Six I	Months ending March'24, 100% PME scheduled	Date: 27/05/2024
Statutory compliance	The project authorities should ensure their activities conform to the recent Supreme Court Order dated 12/12/94 with respect to the Write Petition No. 664/93 and 551/94 filed by the India Council for Environce Legal Action Vs. Union of India. Provisions of CRZ should be complied with in respect of installations to be provided within 500 ref HTL.	
ubmission: Complied nd complied.		Date: 27/05/2024
MISCELLANEOUS		
<b>ubmission:</b> Complied ed with. The total expenditure for the re 12.	e environmental protection measures are provided in	Date: 27/05/2024
Marine/Coastal	in such a way that the residual flow including floor wa percolate the marine areas including the nearby salt pa SPM / SBM and submarine pipeline should be selected consultation with NIO, State Pollution Control Board,	shings do not ns. Location of thin and
		Date: 27/05/2024
Marine/Coastal	Wild Life Warden, Government of Gujarat should be of	btained prior
	MISCELLANEOUS  Abmission: Complied edged Environmental Cell headed by bed by suitably qualified engineers is of environmental management in the Human Health Environment  Abmission: Complied ional Health Department carries out reds are maintained. During last Six wes have undergone medical examinates have undergone medical examinates.  Statutory complied and complied.  MISCELLANEOUS  Abmission: Complied de with. The total expenditure for the red 12.  Marine/Coastal  Abmission: Complied de with. The total expenditure for the red 12.	MISCELLANEOUS  An Environmental Management Cell should be estate 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.  An Environmental Management Cell should be estate 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.  An Environmental Management Cell should be estate suitably qualified engineers is set-up. The environment cell is responsible for all of environmental management in the complex. Refer Departmental Organogram Annexure  Medical surveillance of workers should be done regute possibility of contracting occupational diseases and maintained.  Submission: Complied  Medical surveillance of all employees annually reds are maintained. During last Six Months ending March'24, 100% PME scheduled es have undergone medical examination.  The project authorities should ensure their activities recent Supreme Court Order dated 12/12/94 with respection No. 664/93 and 551/94 filed by the India Could Legal Action Vs. Union of India. Provisions of CRZ stromplied with in respect of installations to be provided of HTL.  And the searmarked for the environmental protection of HTL.  A. SPM and Sub-Sea Pipeline: The tank farms should in such a way that the residual flow including floor was percolate the marine areas including the nearby salt pass and submarine pipeline should be selected consultation with NIO, State Pollution Control Board, Government of Gujarat (National Marine Park Author) way that the corals and mangroves are not affected.  An SPM and Sub-Sea Pipeline: Note of the selected consultation way that the corals and mangroves are not affected.  And specified and implemented so that the marine areas gethe nearby salt pans are not affected by the tank farm operations. Complied with.

	Submission: Complied lied with.		Date: 27/05/2024
54	Marine/Coastal	A. SPM and Sub-Sea Pipeline: The flexible hoses speriodically tested and in case of deterioration of conshould be replaced. Safety breakaway couplings should the system.	dition, hoses
	Submission: Complied exible hoses installed are of Doub	le carcass type with safety breakaway couplings. These	Date: 27/05/2024
hoses	are inspected periodically. If any s liate measures are taken to replace	signs of deterioration or damage to the hoses is noticed, e the hoses.	217 037 202
noses			ght and should cessary. Heigh

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

## Acknowledgment

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	
The state of the s	Y I NOVI G I D	

#### **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	NA
Entity name as per PAN	NA

## **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

# **Details of Production and Project Area**

Name of Entity / Corporate Office Reliance Industries Ltd.

	Project Area as per EC Granted	<b>Annual Project Area in Possession</b>
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

# **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**

	Condition Type	Condition Details	
1	Statutory compliance	All Conditions stipulated by MoEF in the environmental clearance for 18 MMTPA Crude processing vide ministry letter of even number dated 15th September 1995 and NOC granted by GPCB to the 27 MMTPA capacity must be strictly adhered to.	
	abmission: Complied litions are compiled.		Date: 28/05/2024
2	AIR QUALITY MONITORING AND PRESERVATION	The refinery is permitted to operate at the expanded without exceeding the earlier stipulated pollution load SO2 emissions. SO2 emission report may be made on for all the stacks (fuel burning and process emissions) computerized monitoring mechanism as per the format Further, regular monitoring of stacks every fortnight mecarried out to cross check the data obtained from computerized monitoring by engaging a reputed organization such as addition, a monthly S-balance statement indicating typ S-content, product S-content, SO2 emission etc. may be fortnightly and monthly reports generated as above should be the GPCB, CPCB & MoEF.	of 24 TPD of a daily basis through the t attached. nust also be outerized s NEERI. In he of crude, its be made. Daily
Regular	<b>ibmission:</b> Complied monitoring & measurement are c	earried out for measuring total SO2 emission from the	
in Annex SO2 emi cross che monitori	complex which is below the limit xure I-A. The refinery now has co- issions are captured in real time. I eck the computerised monitoring.	ts prescribed. SO2 emission monitoring report is included ontinuous online emission monitoring system in which the Each stack is manually monitored on a monthly basis to . A MoEF approved agency has been engaged for the Monthly Sulphur balance statements are prepared as	Date: 28/05/2024
in Annex SO2 emi cross che monitori	complex which is below the limit xure I-A. The refinery now has co issions are captured in real time. I eck the computerised monitoring. ng. Please refer Annexure 2-A. M	ts prescribed. SO2 emission monitoring report is included ontinuous online emission monitoring system in which the Each stack is manually monitored on a monthly basis to . A MoEF approved agency has been engaged for the Monthly Sulphur balance statements are prepared as	28/05/2024 post-project o account the
in Annex SO2 emicross che monitori stipulate	complex which is below the limit xure I-A. The refinery now has consistent is a captured in real time. It is consistent is a captured in real time. It is consistent in the capture in real time. It is consistent in the capture in th	ts prescribed. SO2 emission monitoring report is included ontinuous online emission monitoring system in which the Each stack is manually monitored on a monthly basis to . A MoEF approved agency has been engaged for the Monthly Sulphur balance statements are prepared as implied With.  The project authorities should come out with a fresh EIA report within 6 months which should also take into impact of 250 MW X 4 petro-coke based power plant for the Report has been submitted to MoEF in November.	28/05/2024  post-project o account the for review.  Date:
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Visit Remarks		
Last Site Visit Report Date:	N/A	
Additional Remarks:	All Attachments are uploaded as Additional Attachment.	

## Acknowledgment

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	NA
Entity name as per PAN	NA

## **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

## **Details of Production and Project Area**

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

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

# **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 Condition Type Condition Details** Sr.No. 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 1 (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 & biological parameters in the marine environment. Regular analysis is carried out of the 28/05/2024 seawater both upstream & 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. 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 AIR QUALITY by the SPCB, whichever is more stringent. At no time, the emission 2 MONITORING AND level shall go beyond the stipulated standards. In the event of failure **PRESERVATION** 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. Date: **PPs Submission:** Complied 28/05/2024 Complied with. 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. The company shall ensure strict implementation of compliance to 3 Statutory compliance the stipulations made by MOEF vide OM no. J-11011/25/1994-IA~1 dated 15th September 1995 and 6th September, 2000. Date: PPs Submission: Being Complied 28/05/2024 Being Complied with. 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 AIR QUALITY level concentration and downwind direction of wind. The monitoring MONITORING AND 4 network must be decided based on modeling exercise to represent **PRESERVATION** 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 Complied with. AAQM stations have been setup based on the modelling reports of NEERI. The Date: monitoring parameters are as per the NAAQS 18th November '2009. Please Refer Annexure 5-B. 28/05/2024 Complied with. Continuous on-line stack monitoring for all the stacks is provided. Complied. 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

5 AIR QUALITY
5 MONITORING AND
PRESERVATION

Standards as notified on 18th March '2008. Please refer Annexure 13.

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 Complied with. Regular monitoring & measurement are carried out for measuring total SO2 emission from the refinery complex which is below the limits prescribed. The total SO2 emission as Date: reported in the annexure is between 42.26 and 46.78 MT/day at the lowest and highest levels. 28/05/2024 Monitoring is included in Annexure I-A & I-B. Complied with. The refinery now has continuous online emission monitoring system in which the SO2 emissions are captured. Each stack is monitored monthly by MoEF recognized laboratory/consultant to cross check computerized monitoring. Complied with. AIR OUALITY All the Sulphur Recovery Units shall have tail gas treatment (TGT) MONITORING AND facilities and the overall efficiency of the SRU with TGT unit shall be 6 **PRESERVATION** 99.9%. Date: **PPs Submission:** Complied 28/05/2024 Complied with. Please refer Annexure 4-B for SRU Efficiency. AIR QUALITY Ultra Low-NOx burners shall be provided in the new furnaces to 7 MONITORING AND 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 28/05/2024 Complied with. The emission levels are well below the prescribed norms of GPCB. 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 so as to ensure that the NMHC levels outside the refinery complex 8 MONITORING AND **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 Complied. Complied. More than 46,290 gas detectors and alarms are installed in the jamnagar Date: complex at strategic locations for detecting toxic gas & HC leakage. Complied. Necessary measures 28/05/2024 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 with. For control of fugitive emissions, the company shall augment the existing flare system and route all unsaturated hydrocarbons to the flare system in addition to the existing flare system. All the pumps AIR QUALITY and other equipment where there is a likelihood of HC leakages shall 9 MONITORING AND be provided with LEL indicators and also provide for immediate **PRESERVATION** isolation of such equipment, in case of a leakage. The company shall adopt Leak Detection and Repair (LDAR) program for quantification and control of fugitive emissions. Date: PPs Submission: Complied The safety and emergency discharge of hydrocarbons are routed to adequate flare systems which are

are in a		are developed & implemented for LDAR programs and n-Refinery Standards as notified on 18th March '2008.	28/05/2024
10	AIR QUALITY MONITORING AND PRESERVATION	All new stacks shall be of appropriate design and hei be attached to pollution control systems, wherever nece 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 tenvironmental Protection Rules.	the CPCB guidelines for stack height and as prescribed	Date: 28/05/2024
11	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.	ole for the mical refiner e detail desig isting refiner
	Submission: Complied ied with.		Date: 28/05/2024
12	AIR QUALITY MONITORING AND PRESERVATION	The Central Pollution Control Board shall carry out i monitoring of all the stacks for SO2 and NOx.	ndependent
<b>PPs</b> S	Submission: Agreed to Comply		Date: 28/05/2024
13	WATER QUALITY MONITORING AND PRESERVATION	Ground water shall not be tapped for construction, in domestic uses including the township. All the water receive the refinery complex shall be met by desalination of se	quirements of
	Submission: Complied nation plants have been installed to me	eet the total water demand of the refinery complex.	Date: 28/05/2024
14	WATER QUALITY MONITORING AND PRESERVATION	A new effluent treatment plant with primary, secondar treatment facility shall be constructed to cater to the adeffluent load. Liquid effluents shall be treated to conforstandards stipulated by the GPCB I Ministry of Environards under EPA 1986 and also the new norms being Treated effluent be recycled and reused to achieve zero effluent. The domestic effluent after treatment and conprescribed standards shall be used for greenbelt development.	ditional rm to the nment & specified. discharge of forming to th
State-c faciliti		is provided with Primary, Secondary and Tertiary of the treated water. The treated water meets all the 7-A & 7-B. Complied with.	Date: 28/05/2024
15	Marine/Coastal	The return seawater (brine from desalination plant, coblow down etc.) shall be discharged to the sea through designed diffuser system. The existing diffuser system augmented to cater to the additional discharge volume. augmentation of the existing diffuser system/any other system in terms of dispersion in the sea shall meet the	a properly shall be The diffuser

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. PPs Submission: Complied Date: The existing diffuser system has been augmented to cater to the additional discharge volume. The 28/05/2024 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. 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 16 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 28/05/2024 plant. Please refer Annexure 7-A & 7-B. The return seawater before discharge to outfall is monitored for salinity and temperature & 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 17 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 28/05/2024 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 18 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 28/05/2024 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 19 WASTE MANAGEMENT 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 28/05/2024 area are incinerated (at the approved Common Hazardous Waste Incinerator (CHWI) facility) or sent for Co-processing in Cement Industry. Occupational Health Surveillance of the employees and workers 20 Human Health Environment shall be done on a regular basis and records maintained as per the Factories Act. PPs Submission: Complied Date: Complied with. Occupational Health Surveillance of the employees and workers are conducted 28/05/2024 regularly, and the records are maintained as per the Factories Act. The periodical Medical Surveillance of all employees is carried out annually. Marine/Coastal 21 The extension of the existing tank farm shall be designed in such a

There and im	plemented so that the marine areas a	National Institute of Oceanography.  area. Appropriate design measures have been considered are not affected by the tank farm operations. The facilities has been carried out in consultation with NIO.	Date: 28/05/2024
22	Marine/Coastal	No discharge of crude oil / products washings shall be Gulf. No dredging in the sea should be undertaken excunavoidable during construction and operation while a expansion of the marine facilities. Details of the same provided to the Director, Marine Park & Sanctuary, Jan Gujarat Pollution Control Board.	ept where ugmenting an shall be
Compl	Submission: Complied lied with. No crude oil washings are lied with.	permitted in the Gulf as a part of marine operations.	Date: 28/05/2024
23	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 ar
	Submission: Complied lied with. Pressurized storages of LPG	G have been reduced.	Date: 28/05/2024
24	Risk Mitigation and Disaster Management	The On-site and Off-site Emergency Preparedness Pl 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 nhanced
Compi regula		edness Plans have been developed. These are updated at aredness Plans have been developed by District approved by Indian Coast Guard.	Date: 28/05/2024
25	MISCELLANEOUS	The Environmental Management Cell and laboratory the collection of the samples shall be augmented with a facilities and qualified personnel and directly report to	suitable
23		executive of the refinery complex.	

## **General Conditions**

Sr.No.	<b>Condition Type</b>	Condition Details
1	MISCELLANEOUS	The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board and the State Government.

	Submission: Complied lied with.		Date: 28/05/2024
2	MISCELLANEOUS	No further expansion or modernization in the plant out without prior approval of the Ministry of Environ Forests.	
PPs Noted	Submission: Complied		Date: 28/05/2024
3	AIR QUALITY MONITORING AND PRESERVATION	At no time, the emissions shall go beyond the presonant the event of failure of any pollution control system units, the respective unit should be immediately put of and shall not be restarted until the desired efficiency achieved.	adopted by the out of operation
Compl	Submission: Complied lied with. Emissions are within the stand likelihood of exceedance corrective act	dards prescribed by the concerned authorities. In case ions are laid down.	Date: 28/05/2024
4	Noise Monitoring & Prevention	The overall noise levels in and around the plant are well within the standards (85 dBA) by providing nois measures including acoustic hoods, silencers, enclose sources of noise generation. The ambient noise levels to the standards prescribed under EPA Rules, 1989 vitime) and 70 dBA (night time).	e control ares etc. on all s should confor
Appro includ area ar and co	ing acoustic hoods, silencers, enclosures the kept well within the standards. Regulation	provided to identified sources of noise generation s etc. 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: 28/05/2024
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 hazardetc. Necessary approvals from Chief Controller of Expostained before commission of the project.	ous Chemicals dous chemical
	Submission: Complied lied with. Obtained the necessary approx	vals from Chief Controller of Explosives.	Date: 28/05/2024
6	Statutory compliance	The project authorities must strictly comply with the regulations with regard to handling and disposal of has in accordance with the Hazardous Wastes (Managem Handling) Rules, 2003. Authorization from the State Control Board must be obtained for collections/treatment/storage/disposal of hazardous was the control of the collections of	azardous waste ent and Pollution
		treatment; storage and disposal of HW is obtained	Date: 28/05/2024
7	MISCELLANEOUS	The project authorities will provide requisite funds and non-recurring to implement the conditions stipula Ministry of Environment and Forests as well as the S along with the implementation schedule for all the co	ated by the tate Governme

		any other purposes.	
		the environmental protection measures is provided in	Date: 28/05/2024
8	Statutory compliance	The stipulated conditions will be monitored by the F Ministry at Bhopal/Central Pollution Control Board/S Control Board. A six-monthly compliance report and data should be submitted to them regularly.	tate Pollution
Noted.	Submission: Complied A six-monthly compliance report on regular basis and Monthly mon	and the monitored data are submitted to MoEF regional itoring reports to GPCB.	Date: 28/05/2024
9	Statutory compliance	The Project Proponent should inform the public that been accorded environmental clearance by the Minists the clearance letter are available with the State Polluti Board! Committee and may also be seen at Website o Environment and Forests at http://www.envfor.nic.in. advertised within seven days from the date of issue of letter at least in two local newspapers that are widely	ry and copies on Control f the Ministry This should be the clearance circulated in the
		region of which one shall be in the vernacular language concerned and a copy of the same should be forwarde Regional office.	
The advenviron the Stat	mental clearance by the Ministry e Pollution Control Board, has be	region of which one shall be in the vernacular language concerned and a copy of the same should be forwarde	d to the  Date:
The advenviron the Stat	vertisement regarding Information mental clearance by the Ministry e Pollution Control Board, has be	region of which one shall be in the vernacular language concerned and a copy of the same should be forwarde Regional office.  It to the public that the project has been accorded and Copies of the clearance letter were made available with en published within the stipulated period in two local	Date: 28/05/2024 Office as well approval of the
The advenviron the Stat newspa	vertisement regarding Information mental clearance by the Ministry e Pollution Control Board, has be per that are widely circulated in the	region of which one shall be in the vernacular language concerned and a copy of the same should be forwarde Regional office.  It to the public that the project has been accorded and Copies of the clearance letter were made available with en published within the stipulated period in two local he region. The copy of the same has been submitted.  The Project Authorities should inform the Regional as the Ministry, the date of financial closure and final project by the concerned authorities and the date of concerned authorities and the date of concerned authorities and the date of concerned authorities.	Date: 28/05/2024 Office as well approval of the mmencing the
The advenviron the Stat newspa	vertisement regarding Information mental clearance by the Ministry e Pollution Control Board, has be per that are widely circulated in the MISCELLANEOUS	region of which one shall be in the vernacular language concerned and a copy of the same should be forwarde Regional office.  It to the public that the project has been accorded and Copies of the clearance letter were made available with en published within the stipulated period in two local he region. The copy of the same has been submitted.  The Project Authorities should inform the Regional as the Ministry, the date of financial closure and final project by the concerned authorities and the date of concerned authorities and the date of concerned authorities and the date of concerned authorities.	Date: 28/05/2024 Office as well approval of the mmencing the
The advenviron the Stat newspa	vertisement regarding Information mental clearance by the Ministry e Pollution Control Board, has be per that are widely circulated in the MISCELLANEOUS	region of which one shall be in the vernacular language concerned and a copy of the same should be forwarde Regional office.  It to the public that the project has been accorded and Copies of the clearance letter were made available with en published within the stipulated period in two local he region. The copy of the same has been submitted.  The Project Authorities should inform the Regional as the Ministry, the date of financial closure and final project by the concerned authorities and the date of colland development work.	Date: 28/05/2024 Office as well approval of the mmencing the

## Acknowledgment

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	IAMNACAD	

#### **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	NA
Entity name as per PAN	NA

## **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

# **Details of Production and Project Area**

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

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

# **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 Condition Type** Sr.No. **Condition Details** M/s RIL shall undertake measures for firefighting facilities in case **MISCELLANEOUS** of emergency. Date: PPs Submission: Complied 28/05/2024 Firefighting facilities including dedicated fire stations are operational so as to cover all the units. The company shall submit time bound action plan for brine management. Further, possibility of setting up of salt manufacturing 2 **MISCELLANEOUS** facility for management of huge volume of brine shall be explored or tie up with the salt manufacturing units in the area for brine disposal. Date: PPs Submission: Complied 28/05/2024 Noted. This possibility has been explored. However, it is not found feasible. The company shall prepare integrated risk assessment report considering domino effect which shall be done after freezing overall Risk Mitigation and Disaster layout of the Petrochemical Complex with precise location of all 3 Management individual plants as well as all offsite and battery limit storage areas of the Petrochemical Complex and after all storage capacities and tank sizes are decided. Date: PPs Submission: Complied 28/05/2024 The integrated risk assessment considering domino effect has been carried out while freezing the layout of the units and storages. The Quantitative Risk Assessment (QRA) shall be done in comprehensive manner by taking into all consideration listed below but not limited to, a) Report to consider two mega size refineries in the same industrial area and shall deal with the risk arising out of Risk Mitigation and Disaster major incident (VCE, Flash fire) in either the existing refineries or Management proposed petrochemical complex and its domino effect on the each other b) Report to consider precise layout of particular units, bulk storages and storage quantities determined, details of safety system, safeguard provided against domino effect. **PPs Submission:** Complied Date: The Comprehensive Quantitative Risk Assessment study has been done once the overall layout of 28/05/2024 the project including the two refineries and the projects was frozen along with the final layout of the particular units and bulk storages. The report includes the safeguards to be provided under domino effect. Risk Mitigation and Disaster All pressure vessels shall be of SIL-3 level product at par with 5 Management existing refineries. Date: PPs Submission: Complied 28/05/2024 Complied. Risk Mitigation and Disaster Any relief system for major hazardous releases shall have at least 6

Management

PPs Submission: Complied

double or triple backup system against the possibility of human error.

Date:

	ed in the FEED for the project.		28/05/2024
7	Risk Mitigation and Disaster Management	Risk assessment shall include BLEVE for propane ar considered in the lay out plan.	nd shall be
<b>PPs</b> Comp	Submission: Complied lied.		Date: 28/05/2024
8	MISCELLANEOUS	The company shall submit reports of last 2-3 years reexternal safety audit.	egarding
	Submission: Complied audits are being conducted and the au	adit reports submitted to concerned authorities.	Date: 28/05/2024
9	MISCELLANEOUS	Since some of the design parameters have not been for stage of project, once the Front End Engineering Desig (FEED) is firmed up, necessary details for integrated Q available particularly with respect to lay out including, storages with storage quantities determined, details of safeguard provided against domino effect and other deprescribed in the specific conditions stipulated above recatalyst and the mode of their disposal, steps for mitigating and NOx releases details of phosgene management and for diffuser for discharged of saline water into the seas submitted to the Ministry. The information provided she before the Committee so that the Committee suggests recorrection, and if considered necessary additional envisafeguards are stipulated for compliance by M/s RIL.	gn Document QRA study are the bulk safety system tails as egarding ation of SO2 I model used shall be nall be place mid-course ronmental
PPs	Submission: Complied		Date:
Part of impler	nented are as per the assessed impacts	ational and the rest in the design phase. The projects s and risks. The execution of the remainder projects is up to the Ministry for a fresh approval.	
Part of impler	nented are as per the assessed impacts	s and risks. The execution of the remainder projects is	28/05/2024 signed based ls of ETP shall regated into ary, secondary een belt effluent shall vater shall be
Part of impler unlike  10  PPs For the segreg State-of facilitiprescri	WATER QUALITY MONITORING AND PRESERVATION  Submission: Complied e complex, the process wastewater is to gated at source based on its stream chapfart Effluent Treatment Plants (ETP) des for the recycle and reuse of the treatibed standards. Refer Annexure 7C The grunultiport diffuser at the location ide	The centralized ETP and standalone ETP shall be deson the raw water and wastewater quality. Design detail be submitted to the Ministry. The effluent shall be segn low TDS and High TDS stream which shall after prima and tertiary treatment shall be used and recycled for gr development, cooling tower make up etc. The treated e comply with the prescribed standards. The return sea w discharged into the sea through a multi-port diffuser at identified by NIO.  Treated in the ETP. The wastewater generated are racteristics & Total Dissolved Solids (TDS) levels.  The effluents are treated to comply with the me return seawater is discharged into the Gulf through the	28/05/2024 signed based ls of ETP shall regated into ary, secondary een belt effluent shall vater shall be
Part of impler unlike  10  PPs For the segreg State-of facilitiprescri	WATER QUALITY MONITORING AND PRESERVATION  Submission: Complied e complex, the process wastewater is that at a source based on its stream change for the recycle and reuse of the treatibed standards. Refer Annexure 7C The	The centralized ETP and standalone ETP shall be deson the raw water and wastewater quality. Design detail be submitted to the Ministry. The effluent shall be segn low TDS and High TDS stream which shall after prima and tertiary treatment shall be used and recycled for gr development, cooling tower make up etc. The treated e comply with the prescribed standards. The return sea w discharged into the sea through a multi-port diffuser at identified by NIO.  Treated in the ETP. The wastewater generated are racteristics & Total Dissolved Solids (TDS) levels.  The effluents are treated to comply with the me return seawater is discharged into the Gulf through the	signed based as of ETP shall regated into arry, secondary een belt effluent shall water shall be a point  Date: 28/05/2024

the ext	tent possible.		28/05/2024
12	AIR QUALITY MONITORING AND PRESERVATION	The company shall install low NOx burner to mitigat emission and cyclone, venturi scrubbers, sulphur recov tail gas treatment for mitigating SO2 emission.	
The be	Submission: Complied est available technology is incorpores for mitigating emissions viz; S	orated in FEED of the project for reduction and control SO2, PM, NOx etc.	Date: 28/05/2024
13	AIR QUALITY MONITORING AND PRESERVATION	The company shall install detectors for phosgene and shall be taken for phosgene management.	l specific step
	Submission: Complied ene plant is not set up and thus No	ot Applicable.	Date: 28/05/2024
14	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions (SO2, PM10, NOx, CO and Mathematical the various process units shall conform to the standard under Environment (Protection) Rules, 1986 or norms the SPCB, whichever is more stringent. At no time, the shall go beyond the stipulated standards. In the event of pollution control system(s) adopted by the unit, the rest should not be restarted until the control measures are reachieve the desired efficiency.	s prescribed stipulated by e emission le of failure of pective units
Gaseo		olex are within the stricter standards prescribed by the exceedance corrective actions are laid down to avoid it.	Date: 28/05/202
15	AIR QUALITY MONITORING AND PRESERVATION	Process emissions shall be controlled by scrubbers. Femissions from the various stacks attached to the boile furnace/heaters shall conform to the prescribed standard	rs,
The be	Submission: Complied est available technology is incorposibed standards. Pl. Refer Annexur	orated & established in FEED for the units to conform to the e 2C.	Date: 28/05/2024
16	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions from the DG sets shall be disstack of adequate height as per CPCB/State Pollution 0 standards. Acoustic enclosures shall be provided to minoise.	Control Boar
		ed standards and acoustic enclosures are provided for all the	Date: 28/05/2024
17	AIR QUALITY MONITORING AND PRESERVATION	The proponent shall upload the status of compliance stipulated EC conditions, including monitored data on shall update the same periodically. It shall simultaneous the Regional Office of MoEF, the respective Zonal off and the SPCB. The criteria pollutant namely; Particula (PM10, SO2, NOx, VOC and HC (Ambient levels as we emissions) or critical sectoral parameters, indicated for shall be monitored and displayed at the convenient loc main gate of the company in the public domain.	its website a asly be sent to ice of CPCB te matter well as stack the project

Complia Particula paramete near the	ate matter (PM)10, SO2, NOx, VOC a ers, indicated for the complex are more	es regularly. The criteria parameters namely and HC (Ambient levels) and critical sectorial nitored and displayed at the convenient location ic domain. The status of compliance is uploaded on	Date: 28/05/2024
18	AIR QUALITY MONITORING AND PRESERVATION	The company shall use low sulphur fuel to minimi Stacks which are contributing to more SO2 emission identified and SO2 emissions shall be reduced by ch by increasing the height of major stacks to bring GL prescribed limits.	s shall be anging the fuel or
The best (FEED)		& established in the Front-End Engineering Design ation of GLC. All stack heights are in accordance to LCs monitored.	Date: 28/05/2024
19	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions of HC from product storage tande be regularly monitored. Sensors for detecting HC lead be provided at strategic locations.	
PPs St	abmission: Complied ed with.		Date: 28/05/2024
20	AIR QUALITY MONITORING AND PRESERVATION	M/s RIL shall implement Leak Detection and Repa programme using a portable VOC detection instrume on distribution lines and tanks.	
		with the MoEF notifications 2008 and 2012 for the	Date: 28/05/2024
21	AIR QUALITY MONITORING AND PRESERVATION	Measures shall be undertaken for odour control and odours compounds shall be maintained.	d inventory of
PPs St	ubmission: Complied ed.		Date: 28/05/2024
22	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 at maintained.	o the tanker. Data
Complie	abmission: Complied and for the complex. The fugitive emissed and records are maintained.	sions in the product loading gantry are regularly	Date: 28/05/2024
23	AIR QUALITY MONITORING AND PRESERVATION	The company shall ensure that no halogenated orgalizers. If any of the halogenated organic are present respective streams may be incinerated, if there are not feasible or economically viable reduction/recovery of stream containing organic carbon, other than halogen connected to proper flaring system, if not to a recovery incinerator.	then the technically options. Any nated shall be

incinerator.

#### PPs Submission: Complied

The safety and emergency discharges of HC are routed to the flare system & the HC is recovered to the extent possible, however, the safety and emergency discharges are routed to the flare. No halogenated organics are routed to the flare.

Date: 28/05/2024

24

AIR QUALITY MONITORING AND PRESERVATION To control the fugitive emissions, the unit shall have provision for internal floating roof tanks with flexible double seal for MS and intermediate products; mechanical seals in pumps; regular inspection of floating roof seals and proper maintenance of floating roof seals for storage tanks; preventive maintenance of valves and other equipment; regular skimming of oil from separators/equalization basin in ETP. The units shall assess and minimize the fugitive VOC emission wherever possible.

**PPs Submission:** Complied

The best available technology is incorporated & established in the (FEED for reduction & 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.

Date: 28/05/2024

25

WASTE MANAGEMENT

The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Details of regarding type of catalyst to be used and plan for disposal of spent catalyst shall be submitted. The company shall incinerate the oil cotton rags only. The design of the incinerator and secured landfill facility shall be as per the CPCB guidelines.

#### **PPs Submission:** Complied

Authorization for collection, storage and disposal of hazardous waste generated from the units is obtained from GPCB.

Date: 28/05/2024

26

WATER QUALITY MONITORING AND PRESERVATION

M/s RIL shall undertake rainwater harvesting measures, to recharge the ground water and also to minimize the water drawl from the weir.

#### **PPs Submission:** Complied

Rainwater harvesting through a network of storm water ponds is developed. The storm water runoffs are collected in the ponds. The water is recycled & reused.

Date: 28/05/2024

27

**GREENBELT** 

Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with local DFO.

**PPs Submission:** Complied Complied with.

Date: 28/05/2024

28

**Human Health Environment** 

Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employees shall be maintained separately.

#### PPs Submission: Complied

Occupation health surveillance is implemented for the personnel working in the complex. The medical records are being maintained. The first aid facilities in the OHC have been strengthened. During the last six months ending 31st March'24 100% scheduled employee's medical surveillance checkup was conducted.

Date: 28/05/2024

29	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 recompare with CORMIX model. The depth of discharge shall be determined as per the above model.	fficacy of the nodel and als
During seawate MoEF f	er intake facilities, desalination plant For the projects being implemented i	of the projects CRZ clearance for augmentation of ts and discharge of return seawater was obtained from n 2015. This included numerical modelling for the g was found to be in order and accepted by the Ministry.	Date: 28/05/2024
30	WATER QUALITY MONITORING AND PRESERVATION	The hot water effluent and outfall shall be discharged prescribed standards.	l as per the
	<b>Submission:</b> Complied ed with.		Date: 28/05/2024
31	WATER QUALITY MONITORING AND PRESERVATION	The company shall comply with effluent and emissio Petrochemical Plants of CPCB/MoEF.	n standards f
	<b>Submission:</b> Complied ated effluent quality is well within the	he prescribed standards for refineries and petrochemical	Date: 28/05/2024
32	MISCELLANEOUS	Provision shall be made for the housing for the construction within the site with all necessary infrastructure and facture fuel for cooking, mobile toilets, mobile sewage treatmed drinking water, medical health care, crèche etc. The hound in the form of temporary structure to be removed after of the project. All the construction wastes shall be man there is no impact on the surrounding environment.	ilities such as ent plant, safe using may be the completion
During such as The lab to the m	fuel for cooking, toilets, sewage tre our camps for projects are being der	had been set up with all necessary infrastructure facilities atment plant, safe drinking water, medical health care etc. mobilized. The generation of construction waste was kept planning. It has been managed to ensure no impact to the	Date: 28/05/2024
33	Statutory compliance	The Company shall comply with all the conditions st ministry's clearance letter no. J-111011/232/2005-IA.I August,2005 for expansion and modernization of petro refinery complex	I(I) dated 3rd
	ubmission: Complied omplied with.		Date: 28/05/2024
	AIR QUALITY	Ambient air quality data for one season other than me 10km radius of the complex particularly one station sha	
34	MONITORING AND PRESERVATION	established where maximum GLC is anticipated with r NOx, PM10, Ozone, CO, Benzene and Benzo (a) pyrer submitted to MoEF/CPCB/SPCB.	espect to SO2

Sr.No.	Condition Type	Condition Details	
1	MISCELLANEOUS	The project authorities will provide adequate funds be and non-recurring to implement the conditions stipulat ministry of Environment and Forest as well as the State along with the implementation schedule for all the constipulated herein. The funds so provided should not be any other purposes.	ed by the e Governmen ditions
The fund	ubmission: Complied ds (recurring and non-recurring) allocate mental conditions and are not diverted	ated are used only for the implementation of the for any other purpose. Refer Annexure 12.	Date: 28/05/2024
2	MISCELLANEOUS	The project authorities must strictly adhere to the stip by the Gujarat Pollution Control Board and the State G	
	ubmission: Complied dards stipulated by GPCB for the con	nplex are being complied with.	Date: 28/05/2024
3	MISCELLANEOUS	No further expansion or modernization in the plant sl carried out without prior approval of the ministry of En Forests.	
PPs Si Noted.	ubmission: Complied		Date: 28/05/2024
4		At no time, the emission should go beyond the prescri	ribed standard
+	MISCELLANEOUS	In the event of failure of any pollution control system a units, the respective unit should be immediately put ou and should not be restarted until the desired efficiency achieved.	adopted by that of operation
PPs Su	MISCELLANEOUS  ubmission: Complied	units, the respective unit should be immediately put ou and should not be restarted until the desired efficiency	adopted by that of operation
PPs Su Noted.		units, the respective unit should be immediately put ou and should not be restarted until the desired efficiency	Date: 28/05/2024
PPs Su Noted.  5  PPs Su All the u	Noise Monitoring & Prevention	units, the respective unit should be immediately put ou and should not be restarted until the desired efficiency achieved.  The overall noise levels in and around the plant area well within the standards by providing noise control m including acoustic hoods, silencers, enclosures etc. on noise generation. The ambient noise levels should confistandards prescribed under EPA Rules.	Date: 28/05/2024
PPs Su Noted.  PPs Su All the u	Noise Monitoring & Prevention  ubmission: Complied units in the complex have been so desi	units, the respective unit should be immediately put ou and should not be restarted until the desired efficiency achieved.  The overall noise levels in and around the plant area well within the standards by providing noise control m including acoustic hoods, silencers, enclosures etc. on noise generation. The ambient noise levels should confistandards prescribed under EPA Rules.	Date: 28/05/2024 shall be kept easures all sources of firm to the  Date: 28/05/2024  Date: 28/05/2024
PPs St Noted.  5  PPs St All the u measure	Noise Monitoring & Prevention  ubmission: Complied units in the complex have been so desis such that the ambient noise levels constitution.  Statutory compliance	units, the respective unit should be immediately put ou and should not be restarted until the desired efficiency achieved.  The overall noise levels in and around the plant area well within the standards by providing noise control m including acoustic hoods, silencers, enclosures etc. on noise generation. The ambient noise levels should confistandards prescribed under EPA Rules.  Igned by providing noise abatement and control conform to the standards prescribed.  The project authorities must strictly comply with the made in Manufacture, Storage and import of Hazardou Rules 1989 as amended in 2000 for handling of hazard etc. Necessary approvals from chief controller of explosion.	Date: 28/05/2024 shall be kept easures all sources of firm to the  Date: 28/05/2024  Date: 28/05/2024

pp (		representations, if any were received while processing	the proposal.  Date:
	Submission: Complied ied with.		28/05/2024
8	Statutory compliance	The project proponent shall inform the public that the been accorded environmental clearance by the Ministry the clearance letter are available with the SPCB/Commalso be seen at website of Ministry at http://envfor.nic.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 lang locality concerned and a copy of the same shall be foreconcerned the Regional Office of the Ministry.	y and copies on ittee and may in This shall the clearance circulated in uage of the
PPs S Compl	Submission: Complied ied.		Date: 28/05/2024
9	MISCELLANEOUS	The project authorities shall inform the Regional Off the Ministry, the date of financial closures and final ap project by the concerned authorities and the date of staproject.	proval of the
	Submission: Complied e complied with.		Date: 28/05/2024
10	Statutory compliance	The Environmental statement for each financial year March in Form-V as is mandated shall be submitted to State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, sh on the website of the company along with the status of environmental clearance conditions and shall also be s respective Regional Offices of MoEF by e-mail.	the concerne Environment all also be pu compliance of
Compl	Submission: Complied	March in Form-V as is mandated shall be submitted to State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, sh on the website of the company along with the status of environmental clearance conditions and shall also be s	the concerned Environment all also be pur compliance of ent to the
PPs S	Submission: Complied ied. Form V are submitted for ope	March in Form-V as is mandated shall be submitted to State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, sh on the website of the company along with the status of environmental clearance conditions and shall also be s respective Regional Offices of MoEF by e-mail.	the concerned Environment hall also be pur compliance of the Date:  28/05/2024
PPs S	Submission: Complied ied. Form V are submitted for ope by GPCB.	March in Form-V as is mandated shall be submitted to State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, sh on the website of the company along with the status of environmental clearance conditions and shall also be s respective Regional Offices of MoEF by e-mail.  Parationalized plants and have been granted Consent to  The Ministry reserves the right to stipulate additional found necessary. The company in a time bound mannel implement these conditions.	the concerned Environment all also be pur compliance of ent to the  Date: 28/05/2024  I conditions, it will  Date:
PPs S	Submission: Complied ied. Form V are submitted for ope by GPCB.  MISCELLANEOUS  Submission: Complied	March in Form-V as is mandated shall be submitted to State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, sh on the website of the company along with the status of environmental clearance conditions and shall also be s respective Regional Offices of MoEF by e-mail.  Parationalized plants and have been granted Consent to  The Ministry reserves the right to stipulate additional found necessary. The company in a time bound mannel implement these conditions.	the concerne Environment all also be pur compliance of ent to the  Date: 28/05/2024  I conditions, it will  Date: 28/05/2024
PPs S Complionerate  11  PPs S The ad	Submission: Complied ied. Form V are submitted for ope by GPCB.  MISCELLANEOUS  Submission: Complied ditional conditions if stipulated with the submission of the submission of the submission.	March in Form-V as is mandated shall be submitted to State Pollution Control Board as prescribed under the (Protection) Rules, 1986, as amended subsequently, sh on the website of the company along with the status of environmental clearance conditions and shall also be s respective Regional Offices of MoEF by e-mail.  The Ministry reserves the right to stipulate additional found necessary. The company in a time bound manner implement these conditions.  Any appeal against this environmental clearance shall National Appellate Authority, if preferred, within a per as prescribed under section 11 of the National Environmental Control of t	the concerned Environment all also be pur compliance of ent to the  Date: 28/05/2024  I conditions, it will  Date: 28/05/2024

PPs : Noted.	Submission: Complied		Date: 28/05/2024
14	MISCELLANEOUS	The above conditions will be enforced, interalia un provisions of the Water (Prevention & Control of Po 1974, Air, (Prevention & Control of Water Pollution Environment (Protection) Act, 1986 Hazardous Was Management and Handling) Rules, 2003/2008 and t Liability Insurance Act,1991 along with their amend	llution) Act, ) Act, 1981, the tes ( he Public
PPs :	Submission: Complied		Date: 28/05/2024
15	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 data should be submitted to them regularly.	/ State Pollutio
	Submission: Complied x-monthly EC compliance and mo	nitoring report are submitted	Date: 28/05/2024
1110 517	x-monumy EC comphance and mo	intoring report are submitted.	26/ 06/ 202
16	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.	y reports on the including resultant to the

Vicit	Ren	narks
V ISII	17611	IAI KS

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

## Acknowledgment

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	IAMNAGAR

#### 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	NA
Entity name as per PAN	NA

# **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

# **Details of Production and Project Area**

Name of Entity / **Corporate Office** 

RELIANCE INDUSTRIES LIMITED

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

# **Production Capacity**

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

## **Conditions**

## **Specific Conditions**

Sr.No.	Condition Type	Condition Details
1	Marine/Coastal	a) The water quality especially for the salinity shall be monitored

		Chennai at the cost of the project proponent, shall sul MoEF&CC the annual inspection report on the funct system & comparative level of pollution, every year approval as the base year.	ioning of the
a)Perio	<b>Submission:</b> Complied odic monitoring around the outfall g basin is included in the report by tted vide compliance report submit	is carried out. Refer Annexure 9. Monitoring around the NCSCM. b)The first monitoring report by NCSCM ted on 01/12/2019.	Date: 28/05/2024
2	Marine/Coastal	The Project Proponent shall not engage in any trend dredging either for water intake into the sea.	ching, digging
	<b>Submission:</b> Complied complied with.		Date: 28/05/2024
3	Marine/Coastal	All the conditions/ recommendations stipulated by Zone Management Authority (GCZMA) vide letter n 2013-37-E dated 05.06.2013, shall be strictly complice.	o. ENV-10-
	<b>Submission:</b> Complied lied with.		Date: 28/05/2024
4	Marine/Coastal	The depth of the stilling basins shall not exceed -12 m. The GMB shall monitor the dredging activity so as to check that the depth of stilling basin does not exceed -12m.	
		stilling basin does not exceed -12m.	
	Submission: Complied has certified & established the dep	th of the stilling basin with a depth of -12 m CD.	Date: 28/05/2024
GMB			28/05/2024
GMB 5 PPs	has certified & established the dep	th of the stilling basin with a depth of -12 m CD.  The maintenance dredge material shall be used for	28/05/2024 low level raisin Date:
GMB 5 PPs Comp	has certified & established the depth Marine/Coastal  Submission: Complied	th of the stilling basin with a depth of -12 m CD.  The maintenance dredge material shall be used for	28/05/2024  low level raisin  Date: 28/05/2024  ne concerned
GMB 5 PPs Comp	Marine/Coastal  Submission: Complied lied with.  WATER QUALITY MONITORING AND	th of the stilling basin with a depth of -12 m CD.  The maintenance dredge material shall be used for in the plant area.  The Project Proponent shall take the clearance of the ground water authority for undertaking construction of the stilling basin with a depth of -12 m CD.	Date: 28/05/2024  Date: 28/05/2024  Date concerned of stilling basin
GMB 5 PPs Comp	Marine/Coastal  Submission: Complied lied with.  WATER QUALITY MONITORING AND PRESERVATION  Submission: Complied	th of the stilling basin with a depth of -12 m CD.  The maintenance dredge material shall be used for in the plant area.  The Project Proponent shall take the clearance of the ground water authority for undertaking construction of the stilling basin with a depth of -12 m CD.	Date: 28/05/2024  Date: 28/05/2024  Date: 28/05/2024  Date: 28/05/2024  Date: 28/05/2024
GMB 5 PPs Comp 6 PPs Being 7	Marine/Coastal  Submission: Complied lied with.  WATER QUALITY MONITORING AND PRESERVATION  Submission: Complied complied with.	th of the stilling basin with a depth of -12 m CD.  The maintenance dredge material shall be used for in the plant area.  The Project Proponent shall take the clearance of the ground water authority for undertaking construction of desired depth of 12m.  All the mitigation measures submitted in the EIA reprepared in a matrix format and the compliance for eplan shall be submitted to MoEF&CC along with hall compliance report to MoEF&CC-RO.	Date: 28/05/2024  Date: 28/05/2024  Date: 28/05/2024  Date: 28/05/2024  Date: 28/05/2024

	Submission: Complied included in design and complied.		Date: 28/05/2024	
)	Marine/Coastal	The outfall shall be at 1 km from shore at 12 m CD.		
The extrom th		on suggested by NIO and approved GPCB. The discharge diffuser in compliance with the conditions as stipulated in	Date: 28/05/2024	
.0	Marine/Coastal	There shall be no disturbance to the sand dunes.		
PPs S	Submission: Complied ied.		Date: 28/05/2024	
1	Marine/Coastal	No construction work other than those permitted in Regulation Zone Notification shall be carried out in C Regulation Zone area.		
	Submission: Complied complied with.		Date: 28/05/2024	
.2	MISCELLANEOUS	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.		
	Submission: Complied ied. The Environmental Managemen	nt Cell is in place.	Date: 28/05/2024	
		nt Cell is in place.  Periodic monitoring of coastal water shall be carried location.	28/05/2024	

# **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 Si Complie	<b>abmission:</b> Complied d with.		Date: 28/05/2024
2	MISCELLANEOUS	In the event of a change in project profile or change in implementation agency, a fresh reference shall be made Ministry of Environment, Forests & Climate Change.	
PPs St	ıbmission: Complied		Date: 28/05/2024

3	MISCELLANEOUS	the Ministry, the date of financial closure and final approject by the concerned authorities and the date of standevelopment work.	
PPs S	Submission: Complied		Date: 28/05/2024
4	Statutory compliance	A copy of the environmental clearance letter shall all on the website of the concerned State Pollution Control EC letter shall also be displayed at the Regional Office Industries centre and Collector's Office/ Tehsildar's of days.	ol Board. The e, District
PPs S	Submission: Complied ied.		Date: 28/05/2024
5	MISCELLANEOUS	The funds earmarked for environmental protection in be kept in separate account and shall not be diverted for purpose. Year-wise expenditure shall be reported to the its concerned Regional Office.	or other
PPs :	Submission: Complied ied.		Date: 28/05/2024
6	MISCELLANEOUS	Full support shall be extended to the officers of this Regional Office at Bhopal by the project proponent du of the project for monitoring purposes by furnishing fu action plan including action taken reports in respect of measures and other environmental protection activities	ring inspections in the second
PPs :	Submission: Complied		Date: 28/05/2024
7	Statutory compliance	A six-Monthly monitoring report shall need to be sulproject proponents to the Regional Office of this Ministregarding the implementation of the stipulated condition	stry at Bhopa
	Submission: Complied ied.		Date:
PPs 8 Compl		Ministry of Environment, Forests & Climate Change competent authority may stipulate any additional cond modify the existing ones, if necessary in the interest of and the same shall be complied with.	Date: 28/05/2024 or any other litions or
Compl 8	ied.	competent authority may stipulate any additional cond modify the existing ones, if necessary in the interest of	Date: 28/05/2024 e or any other litions or f environmen
Compl 8 PPs:	MISCELLANEOUS	competent authority may stipulate any additional cond modify the existing ones, if necessary in the interest of	Date: 28/05/2024 e or any other litions or f environmen  Date: 28/05/2024 nce if any of t

Vis	sit Remarks	
Last Site Visit Report Date:	N/A	
Additional Remarks:		

#### Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

#### Acknowledgment

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	NA
Entity name as per PAN	NA

## **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

## **Details of Production and Project Area**

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

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

## **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	Marine/Coastal	As proposed, the Company shall undertake additional plantation in area of 100 ha.	l mangrove
The Fore	abmission: Complied est Dept. Jamnagar has carried of ubmitted along with compliance	out 100 Ha of mangrove plantation. The letter confirming the e reports vide dts:01/12/2019.	Date: 28/05/2024
2	Marine/Coastal	The Project proponent shall ensure that no creeks or blocked due to any activities at the project site and free is maintained.	
	abmission: Complied owever the location will not cau	se any such disturbance.	Date: 28/05/2024
3	Marine/Coastal	Shoreline should not be disturbed due to dumping. Poon shore line changes shall be conducted and mitigation necessary. The details shall be submitted along with the monitoring report.	n carried out,
Already	abmission: Complied established in EIA. No dumping . The shoreline changes are stud	g is envisaged. There will be no shoreline changes due to lied by NIO regularly.	Date: 28/05/2024
Already	established in EIA. No dumping		28/05/2024 collution Contrision) Act, 198
Already dumping  4  PPs Su	established in EIA. No dumping . The shoreline changes are stud	'Consent to Establish' shall be obtained from State Po Board under the Air (Prevention and Control of Polluti	28/05/2024 constraint Date:
Already dumping  4  PPs Su	established in EIA. No dumping . The shoreline changes are stud  Statutory compliance  abmission: Complied	'Consent to Establish' shall be obtained from State Po Board under the Air (Prevention and Control of Polluti	28/05/2024  collution Contribution) Act, 1983 ct 1974.  Date: 28/05/2024  cording to the awork other

	Marine/Coastal	activity in the Eco- Sensitive area.	
<b>PPs</b> S	Submission: Complied ed.		Date: 28/05/2024
7	Marine/Coastal	The Project proponent shall ensure that there shall be the existing mangroves patches near site and also ensu of water to avoid damage to the mangroves.	
	Submission: Complied ag mangroves are about 4Kms from	the proposed project location.	Date: 28/05/2024
8	PUBLIC HEARING	The commitments made during the Public Hearing a the Minutes shall be complied with letter and spirit. A the action taken shall be submitted to the Ministry.	
	Submission: Complied were no actionable points raised dur	ing the PH.	Date: 28/05/2024
9	Marine/Coastal	As proposed, no capital and maintenance dredging sout.	hall be carried
	Submission: Complied oposed.		Date: 28/05/2024
10	Marine/Coastal	While constructing berth/piles, an independent monicarried out by Government Agency/Institute to check necessary measures shall be taken on priority basis if	the impact and
		impact is observed.	any adverse
	Submission: Complied ied with. NIO has monitored the ma	impact is observed.	Date:
	±		Date: 28/05/2024 including the
Compl  11  PPs:	ied with. NIO has monitored the ma	All the conditions stipulated in the earlier Clearance recommendations of Environment Management Plan,	Date: 28/05/2024 including the
Compl  11  PPs:	Risk Mitigation and Disaster Management  Submission: Complied	All the conditions stipulated in the earlier Clearance recommendations of Environment Management Plan,	Date: 28/05/2024 including the Disaster  Date: 28/05/2024 uents and soli conform to the ding the
PPs 3 Compl	Risk Mitigation and Disaster Management  Submission: Complied ied with.  WATER QUALITY MONITORING AND	All the conditions stipulated in the earlier Clearance recommendations of Environment Management Plan, management Plan shall be strictly complied with.  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	Date: 28/05/2024 including the Disaster  Date: 28/05/2024 uents and soli conform to the ding the

PPs S Noted.	Submission: Complied		Date: 28/05/2024
14	MISCELLANEOUS	Corporate Social Responsibility- The hierarchical sy Administrative Order of the company to deal with envisous and for ensuring compliance with the environm conditions shall be furnished.	vironmental
	Submission: Complied ogram for the Environment depart	ment is attached as Annexure 14.	Date: 28/05/2024
15	MISCELLANEOUS	Corporate Social Responsibility- To have proper che balances, the company shall have a well laid down sy reporting of non-compliances/ violations of environm the Board of Directors of the company and/or sharehostakeholders at large.	stem of ental norms to
On con	Submission: Complied nmissioning all facilities are certifular. The same will be done for the	Fied with EMS ISO 14001:2015 which covers this required berth also.	Date: 28/05/2024
16	MISCELLANEOUS	Corporate Social Responsibility-The Company shal laid down Environment Policy approved by the Board	
	Submission: Complied or Annexure 15.		Date: 28/05/2024
17	Marine/Coastal	Marine ecology shall be monitored regularly also in weeds, sea grasses, mudflats, sand dunes, fisheries, ec shrimps, turtles, corals, coastal vegetation, mangroves marine biodiversity components as part of the manage Marine ecology shall be monitored regularly also in to micro, macro and mega floral and faunal components biodiversity.	chinoderms, s and other ement plan. erms of all
	Submission: Complied done regularly by NIO.		Date: 28/05/2024
18	MISCELLANEOUS	All the mitigation measures submitted in the EIA re prepared in a matrix format and the compliance for ear plan shall be submitted to the RO, MoEF&CC along compliance report.	ch mitigation
	Submission: Complied ied with.		Date: 28/05/2024
19	Marine/Coastal	No product other than permitted under the CRZ Not shall be stored in the CRZ area.	tification, 201
	Submission: Complied rage in CRZ area is envisaged.		Date: 28/05/2024
		The Project Proponent shall take up and earmark ad	equate fund fo

	Submission: Complied lan is already being implemented.		Date: 28/05/2024
21	MISCELLANEOUS	The funds earmarked for environment managem included in the budget and this shall not be diverte purposes.	
PPs Noted.	Submission: Complied		Date: 28/05/2024
22	MISCELLANEOUS	Company shall prepare operating manual in resp. It shall cover all safety & environment related issu. Measures to be taken for protection. One set of en shall be made available at the project site. Awaren at each level of the management. All the schedule environmental monitoring shall be available at the	nes and system.  vironmental manuless shall be created and results of
	Submission: Complied complied and present set of SOPs wi	ll be applicable to the new berth.	Date: 28/05/2024
23	WATER QUALITY MONITORING AND PRESERVATION	All the operational areas will be connected with liquid waste collection corridor comprising of stor and sewage collection pipelines.	
	Submission: Complied lied with as applicable.		Date: 28/05/2024
24	Marine/Coastal	Measures should be taken to contain, control and accidental spills of fuel and cargo handle.	d recover the
	Submission: Complied t Oil Spill Response Plan will be exte	ended to new berth.	Date: 28/05/2024
25	Marine/Coastal	Ships/barges shall not be allowed to release any the sea. Any effluents from the Jetty which have le characteristics shall be segregated and recycled/diguidelines.	eachable
PPs Noted.	Submission: Complied		Date: 28/05/2024
26	AIR QUALITY MONITORING AND PRESERVATION	Location of DG sets and other emission generation be decided keeping in view the predominant wind emissions do not effect nearby residential areas. In operation of DG sets shall comply with the guidel	direction so that a stallation and
	Submission: Complied		Date: 28/05/2024
<b>PPs</b> Compl	ned with.		
	WASTE MANAGEMENT	Municipal solid wastes and hazardous wastes sh per Municipal Solid Waste Rule, 2016 and Hazard Management Rule, 2016.	

			28/05/2024
28	MISCELLANEOUS	The project proponent shall set up separate environme management cell for effective implementation of the stip environmental safeguards under the supervision of a Ser Executive.	oulated
	Submission: Complied by the cell is established.		Date: 28/05/2024
29	MISCELLANEOUS	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also opresentation to the EAC.	
	Submission: Complied lied with.		Date: 28/05/2024
30	WATER QUALITY MONITORING AND PRESERVATION	The ground water shall not be tapped within the CRZ approximate PP to meet with the water requirement in any case.	areas by the
PPs Noted.	Submission: Complied		Date: 28/05/2024

#### **General Conditions**

Sr.No.	<b>Condition Type</b>	Condition Details	
1	MISCELLANEOUS	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on thei website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC, the respective Zonal Office of CPCB and the SPCB.	
PPs Su Complie	abmission: Complied d with.	Date: 28/05/202	
2	MISCELLANEOUS	A copy of the clearance letter shall be marked to concern Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the propos	
PPs Su	abmission: Complied d.	Date: 28/05/202	
3	MISCELLANEOUS	A copy of the environmental clearance letter shall also be display on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries center and Collector's Office/ Tehsildar's office for 30 days.	
PPs Su Complie	<b>abmission:</b> Complied d.	Date: 28/05/202	
		These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974	

		the Air (Prevention and Control of Pollution) Act 1981, Environment (Protection) Act, 1986, the Public Liability Act, 1991 and EIA Notification 1994, including the amorules made thereafter.	y (Insurance)
PPs S	Submission: Complied		Date: 28/05/2024
5	MISCELLANEOUS	All other statutory clearances such as the approvals fo diesel from Chief Controller of Explosives, Fire Departs Aviation Department, Forest Conservation Act, 1980 an (Protection) Act, 1972 etc. shall be obtained, as applical proponents from the respective competent authorities.	ment, Civil d Wildlife
PPs S	Submission: Complied		Date: 28/05/2024
6	Statutory compliance	The project proponent shall advertise in at least two lot Newspapers widely circulated in the region, one of which the vernacular language informing that the project has be Environmental and CRZ Clearance and copies of clearar available with the State Pollution Control Board and may on the website of the Ministry of Environment, Forest a 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 the office of this Ministry at Bhopal.	ch shall be in een accorded nce letters are y also be see nd Climate should be Clearance
PPs S	Submission: Complied ied.		Date: 28/05/2024
7	MISCELLANEOUS	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India ir Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	
PPs S	Submission: Complied		Date: 28/05/2024
8	MISCELLANEOUS	Status of compliance to the various stipulated environg conditions and environmental safeguards will be upload project proponent in its website.	
	Submission: Complied ied with.		Date: 28/05/2024
9	MISCELLANEOUS	Any appeal against this Clearance shall lie with the Na Tribunal, if preferred, within a period of 30 days as pres Section 16 of the National Green Tribunal Act, 2010.	
PPs S	Submission: Complied		Date: 28/05/2024
10	MISCELLANEOUS	A copy of the clearance letter shall be sent by the proposed concerned Panchayat, Zilla Parisad/ Municipal Corporat Local Body and the Local NGO, if any, from whom sug representations, if any, were received while processing	tion, Urban gestions/

		by the proponent.	
	Submission: Complied ied with.		Date: 28/05/2024
11	MISCELLANEOUS	Ministry of Environment, Forest and Climate Competent authority may stipulate any additional modify the existing ones, if necessary in the integrand the same shall be complied with.	l conditions or
PPs :	Submission: Complied		Date: 28/05/2024
12	MISCELLANEOUS	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest and Climate Change.	
PPs !	Submission: Complied		Date: 28/05/2024
13	MISCELLANEOUS	The project proponents shall inform the Regional Office as wel the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	
	Submission: Complied ied with.		Date: 28/05/2024
14	WATER QUALITY MONITORING AND PRESERVATION	Appropriate measures must be taken while und activities to avoid any likely degradation of water	
	Submission: Complied ging is involved.		Date: 28/05/2024
15	MISCELLANEOUS	Full support shall be extended to the officers of Regional Office at Bhopal by the project propose of the project for monitoring purposes by furnish action plan including action taken reports in response and other environmental protection ac	ent during inspectioning full details and pect of mitigation
	Submission: Complied & will be Complied with.		Date: 28/05/2024
16	Statutory compliance	A six-Monthly monitoring report shall need to project proponents to the Regional Office of this regarding the implementation of the stipulated c	Ministry at Bhopal
	Submission: Complied ied with.		Date: 28/05/2024
17	MISCELLANEOUS	The Ministry reserves the right to revoke this conditions stipulated are not complied with the significant.	

PPs S Noted.	Submission: Complied		Date: 28/05/2024
18	Statutory compliance	The environmental statement for each financial ye March in Form-V as is mandated to be submitted by proponent to the concerned State Pollution Control I prescribed under the Environment (Protection) Rule amended subsequently, shall also be put on the webs company along with the status of compliance of EC shall also be sent to the respective Regional Offices e-mail.	the project Board as s, 1986, as site of the conditions and
PPs S Noted.	Submission: Complied		Date: 28/05/2024

#### Visit Remarks

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

#### Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

#### Acknowledgment

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	
D1 . 1 .	**************************************	

#### **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	NA
Entity name as per PAN	NA

## **Compliance Reporting Details**

**Reporting Year** 2024

Remarks (if any)

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

## **Details of Production and Project Area**

Name of Entity / Corporate Office RELIANCE INDUSTRIES LIMITED

	Project Area as per EC Granted	<b>Annual Project Area in Possession</b>
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

## **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	AIR QUALITY MONITORING AND PRESERVATION	The location of ambient air quality monitoring station 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 lean
Complie		up based on the EIA findings of 2005. The monitoring ovember '2009. Please Refer Annexure 5B.	Date: 28/05/2024
2	The project proponent shall strictly comply the sect conditions as mentioned in the Ministry's Office Mer 22-34/2019-IA.III dated 9th August, 2018. The grant Environmental Clearance is further subject to compli generic conditions as under:-		
	ubmission: Complied Pl. refer attachment Annexure BB.		Date: 28/05/2024
3	MISCELLANEOUS	No further expansion or modifications in the plant shall be care out without prior approval of the MoEF&CC. In case of deviate alteration in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the N to assess the adequacy of conditions imposed and to add addition environmental pollution control measures required, if any.	
PPs Su Noted.	ubmission: Complied		Date: 28/05/2024
4	MISCELLANEOUS	A separate Environmental Management Cell equippe fledged laboratory facility shall be set up to carry out to Environmental Management and Monitoring functions	he
	ubmission: Complied the cell is established. Refer Departme	ental Organogram Annexure 14.	Date: 28/05/2024
5	AIR QUALITY MONITORING AND PRESERVATION	The National Ambient Air Quality Emission Standar the Ministry vide G.S.R. No. 826(E) dated 16th Novemball be complied with.	
	ubmission: Complied omplied with.		Date: 28/05/2024
6	Noise Monitoring & Prevention	The overall noise levels in and around the plant area well within the standards by providing noise control m including 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
Approprincluding area are and it co	g acoustic hoods, silencers, enclosures 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: 28/05/2024

Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodic 7 **Human Health Environment** medical examination for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted. PPs Submission: Complied A dedicated Learning Center with state of Art infrastructure is established and well-structured Date: training modules are developed which includes HSEF procedures. As per the training procedure 28/05/2024 every New Joiner has to undergo mandatory training modules which includes safe handling; safe operations, safety management systems etc for hazardous chemicals. Occupational Health Department carries out regular medical checkups of all employees and records are maintained. WATER QUALITY The company shall harvest rainwater from the roof tops of the 8 MONITORING AND buildings to recharge ground water, and to utilize the same for **PRESERVATION** different industrial operations within the plant. PPs Submission: Complied Date: Rainwater Harvesting through a network of storm water ponds are developed having capacity around 28/05/2024 1.56 million cum and 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. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban 9 **MISCELLANEOUS** Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. Date: PPs Submission: Complied 28/05/2024 Complied with. There was no PH conducted and no suggestions / representations were received during the processing of the application. The project proponent shall inform the public that the project has been accorded EC by the ministry and copies of the clearance letter are available with SPCB/Committee and may also be seen at website of the Ministry at http://moef.nic.in. This shall be advertised within 10 Statutory compliance seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry. Date: PPs Submission: Complied 28/05/2024 Complied with. The copy of advertisement of the same has been submitted in the earlier Sixmonthly report dated 29/06/2020. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by MoEF&CC well as state government along with the 11 **MISCELLANEOUS** implementation schedule for all the conditions stipulated herein. The funds so earmarked for Environmental Management/pollution control measures shall not be diverted to any other purpose.

#### **PPs Submission:** Complied

The capital expenditure towards environmental management is already used up for establishing the necessary controls. The recurring expenditure will be continued to be committed as outlined in Annexure 12.

Date: 28/05/2024

The project proponent shall obtain all other statutory/necessary permissions/recommendations/ NOCs prior to start

		construction/operation of the project, which inter alia is 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 Environt and Climate Change from time to time, as applicable to	Act, 1980; the n Zone other office ment, Forest
There is	ncrease in number of working hours.	the project as the increase in the processing capacity is The CTO is obtained from GPCB. No other approvals	Date: 28/05/2024
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 present conditions envisaged.	Date: 28/05/2024
14	The company shall undertake all measures for improving so economic conditions of the surrounding area. CSR activities undertaken by involving local villagers, administration and o stake holders. Also eco-developmental measures shall be under for overall improvement of the environment.		vities shall be and other
CSR ac	Submission: Complied tivities are planned as per the needs cement and overall development of the	of the surrounding villagers aimed at socio-economic e area.	Date: 28/05/2024
15	Statutory compliance	The project proponent shall also submit six monthly reports on to status of compliance of stipulated EC conditions including results monitored data (both hard copy as well as by E-mail) to the respective Regional Office, Moef&CC, the respective zonal office CPCB & SPCB. A copy of EC and six monthly compliance status report shall be posted on the website of the company.	
	Submission: Complied -monthly EC compliance and monito	ring report are being submitted.	Date: 28/05/2024
16	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.	ibmitted to the
	Submission: Complied & complied with.		Date: 28/05/2024
Noted &			
Noted &	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 website company along with the status of compliance of EC co shall also be sent to respective Regional Office of MoEmail.	the concerne a) Act, 1986, e of the nditions and

Visit Remarks		
st Site Visit Report Date:	N/A	
lditional Remarks:	All Attachments are uploaded as Additional Attachment	

#### **Environmental Management Plan**

Sr. No.	Title	Suggested Mitigation Measures	Compliance Status	Target Date
1	Desilting and its Disposal	Desilted material should be stacked properly before being transported for utilization in the RIL complex for filling the low lying areas.	Complied	Completed
2	Intake water channel	Impingement and entrainment of marine organisms, due to large quantity of intake, should be avoided by placing suitable moving screen at the intake.	Complied. Included in the design and implemented	Completed
3	Miscellaneous	The area of construction should be confined to the minimum required and spillages of activities outside the project site should be avoided. Care is warranted not to disturb the mangroves in the vicinity.	Complied.	Completed
		Major pre-fabrication jobs should be undertaken in a yard on land located sufficiently away from the HTL.	Complied. Major Prefabrication jobs were done in yard on land located away from the HTL.	
		Good sanitation and water supply facilities should be made available to the work force. Adequate fuel also should be provided to them to prevent cutting of mangroves for fuel.	Complied. Workmen accommodation is far away from the site with necessary infrastructures facilities	
		Labour colonies should be set-up away from sea and away from mangroves.	Complied	
		The operational noise level should be kept to a minimum particularly in the nearshore region through proper lubrication, muffling and modernization of equipment.	Complied	

Sr. No.	Title	Suggested Mitigation Measures	Compliance Status	Target Date
		<ul> <li>Regular preventive maintenance of equipment used for construction should be practiced.</li> <li>General clean-up along the corridor, adjacent areas and subtidal regions should be taken-up and extraneous materials such as equipment's, pipes, drums, sacks, metal scrap, ropes, excess sediment, make shift huts and cabins should be cleared from the site.</li> <li>All structures should be designed for specific seismic loads.</li> </ul>	Complied	
		<ul> <li>Construction time window shall be small to the extent possible and time-overrun should be avoided.</li> <li>Confine the area of construction to the minimum required and spillages of activities outside this boundary should be avoided.</li> </ul>	Complied. Structures are designed to with stand seismic load (Class IV)  Complied	
		<ul> <li>Bunding of excavated material shall be done to avoid contamination and release in to nearby marine environment.</li> <li>The discharge from Desalination facilities seawater should be monitored for salinity prior to its release through marine outfall.</li> </ul>	Complied Complied	
		Vehicles moving in project area shall have compulsory PUC ( Pollution under control) certificate	Being complied.  Complied	
4	Marine Environment Management	Regular periodic marine environmental monitoring will be carried out to identify any changes in the ecological status.	Periodic monitoring by NIO of entire marine ecology and mangroves is carried out.	On-going

#### **ATTACHEMENT**

Sr. No.	Stipulation	Compliance Status
I.	Statutory Compliance	
1.	The project proponent (PP) shall obtain forest clearance under the provision of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not Applicable.
2.	The PP shall obtain clearance from the National Board of Wildlife, if applicable.	Not Applicable.
3.	The PP shall prepare a site-specific Conservation Plan & Wildlife Management Plan and approved by Chief Wildlife Warden. The recommendations of the approved site-specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the sixmonthly compliance report. (In case of presence of schedule-I species in the study area)	Not Applicable.
4.	The PP shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.	Noted. CTO is obtained from GPCB.
5.	The PP shall obtain the necessary permission from Central Ground Water Authority, in case of drawl of ground water/ from the competent authority concerned in case of drawl of surface water required for the project.	Groundwater is not tapped for domestic or industrial use.
6.	The PP shall obtain authorization under the Hazardous and Other Waste Management Role, 2016 as amended from time to time.	Noted, GPCB has granted Authorisation as a part of the CTO/ Consolidated Consent & Authorisation (CCA).
7.	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rule, 1989 as amended time to time. All transportation of hazardous chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Being Complied with.
II.	Air Quality Monitoring and Preservation	
1.	The PP shall install 24*7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rule, 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specifications through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied with. Continuous on-line stack monitoring for all the stacks are provided and connected to CPCB. The periodic calibration of these instruments is carried out in house by trained staff as per the OEM's procedures.  Pl. refer <b>Annexure 3-B</b> .

Sr. No.	Stipulation	Compliance Status
2.	The PP shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Fugitive emissions are monitored regularly in the plant premises and reports are submitted regularly.
3.	The PP shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside of plant area at least at four locations (one with and three outside the plant area at an angle of 120° each) covering upwind and downwind directions. (case to case basis small plants: Manual; Large Plants: Continuous)	Noted. This refinery is a part of the Jamnagar Manufacturing Division (JMD) of Reliance Industries Limited. The complex has other units established as per the approvals granted by the Ministry. A program for AAQ monitoring is implemented covering all the units. The necessary budgeting is being done so as to cover all units by establishing continuous AAQ monitoring stations. The continuous stations will be located, based on an independent study that has been undertaken for siting them.
4.	The PP shall submit monthly summary report of continuous stack monitoring and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emission to Regional Office of MoEF&CC, Zonal Office of CPCB and Regional Office of SPCB along with sixmonthly monitoring report.	A six-monthly compliance report and the monitored data are submitted to MoEF&CC regional office on regular basis and Monthly monitoring reports to GPCB.  Pl. refer <b>Annexure 3-B</b> .
5.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	The refinery is equipped with all necessary APC systems.
6.	Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Coal is not used as a fuel.  All the stacks are provided in accordance to the applicable guidelines for stack height and as prescribed in the Environmental Protection Rules.
7.	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regards.	Suitable stack height as per the prescribed standards and necessary acoustic enclosures are provided for all the DG sets.
8.	The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186 (E) dated 18 <sup>th</sup> March, 2008 and G.S.R. 595 (E) dated 21 <sup>st</sup> August, 2009 as amended from time to time shall be followed.	Noted. Being complied with.
9.	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820(E) dated 9 <sup>th</sup> November, 2012 as amended time to time shall be followed.	Noted. Being complied with.
10.	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Noted. Being complied with

Sr. No.	Stipulation	Compliance Status
III.	Water Quality Monitoring and Preservation	
1.	The PP shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).	Being complied with. On-line continuous monitoring of effluent is installed as per CPCB guidelines. The treated water is reused/recycled within the refinery complex.  Pl. refer <b>Annexure 3-B</b> .
2.	The PP shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometer/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Being complied with.  The groundwater quality is monitored in plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited. The monitoring results are submitted along with these reports. Please refer <b>Annexure 11</b> .
3.	The PP shall submit monthly summary report of continuous effluent monitoring and results of manual effluent monitoring and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	A six-monthly compliance report and the monitored data are submitted to MoEF&CC regional office on regularly basis and Monthly monitoring reports to GPCB.
4.	The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986 or as specified by the SPCB while granting Consent under Air/Water Act, whichever is more stringent.	Complied with.
5.	As already committed by the PP, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. (applicable in case of projects achieving ZLD)	Not applicable.
6.	Total fresh water requirement shall not exceed the proposed quantity or as specified by the committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	Complied with.
7.	Process effluent/any wastewater shall not be allowed to mix storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Complied with.
8.	The PP shall practice rainwater harvesting to maximum possible extent.	Complied with.
9.	The PP shall practice make efforts to minimise water consumption in the complex by segregation of used water, practicing cascade use and by recycling treated water.	Complied with.
IV.	Noise Monitoring and Prevention	
1.	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied with.
2.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods,	Complied with.

Sr.	Stipulation	Compliance Status
No.	-	Compliance Otatus
	silencers, enclosures, etc. on all sources of noise generation.	
3.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during night time.	Complied with.
V.	<b>Energy Conservation Measures</b>	
1.	The energy sources for lighting purposes shall preferably be LED based.	Almost all the peripheral street lighting, plant area lighting and office buildings have been converted to LED based/ energy conservation lighting.
VI.	Waste Management	
1.	Hazardous chemicals shall be stored in tanks, tank farms, drums carboys, etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Being Complied with.
2.	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Co-processing of the identified HW waste is sent to Cement industries or sent for incineration at CHWIF/TSDF site. Spent carbon is mixed with coke and used in Gasification.
3.	The company shall undertake waste minimization measures as below:-  a. Metering and control of quantities of active ingredients to minimize waste.  b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.  c. Use of automated filling to minimize spillage.  d. Use of close feed system into batch reactors.  e. Venting equipment through vapour recovery system.  f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	Noted & Complied with
VII	Green Belt	
1.	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per CPCB guidelines in consultation with the State Forest Department.	Complied with. Around 3,109 Acres of the total area of the Jamnagar site has been covered by tree plantation. Over 400 species have been planted. Additionally, 875 acres of mangrove plantation has been carried out.
VII	Public Hearing and Human Health Issues	
1.	Emergency preparedness plan based on the Hazardous Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied with.
2.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Complied with.

Sr. No.	Stipulation	Compliance Status
	Firefighting system shall be as per the norms.	
3.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied with.
4.	The PP shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protective Equipment (PPE) as per the norms of Factory Act.	Complied with.
5.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of project.	Complied with.
6.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.	Complied with.
7.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied with.
IX.	Corporate Environment Responsibility	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 01st May, 2018 as applicable, regarding Corporate Environment Responsibility.	Noted.
2.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of environmental/forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms / conditions and / or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of sixmonthly report.	Complied with.
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up	Complied with.

Sr. No.	Stipulation	Compliance Status
	under the control of senior Executive, who will directly to the head of the organization.	
4.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be duly approved by competent authority. The yearwise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress for implementation of action plan shall be reported to the Ministry/Regional office along with the six-monthly compliance report.	Complied with.
5.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Being Complied with. The unit is IMS certified and the EMS audits are conducted as per the standard.
6.	All the recommendations made in the chapter of Corporate Responsibility for Environment Protection (CREP) for the Iron and Steel Plants shall be implemented.	Respective CREP recommendations for Refinery is being complied.
X.	Miscellaneous	
1.	The PP shall make public the EC granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied with.
2.	The copies of the EC shall be submitted by the PP to the heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Being Complied with.
3.	The project proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and update the same on half-yearly basis.	Being Complied with.
4.	The PP shall monitor the criteria pollutants level namely; $PM_{10}$ , $SO_2$ , $NO_x$ (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Being Complied with.

Sr. No.	Stipulation	Compliance Status
5.	The PP shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the MoEF&CC at the EC portal.	Being Complied with
6.	The PP shall submit the Environmental Statement for each financial year in Form-V to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Being Complied with
7.	The PP shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Being Complied with
8.	The project authorities must strictly adhere to the stipulations made by the SPCB and State Government.	Noted.
9.	The PP shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted.
10.	No further expansion or modification in the plant shall be carried out without prior approval from the MoEF&CC.	Noted.
11.	Concealing factual data or submission of false/ fabricated data may result in revocation of this EC and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Noted.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted.
14.	The Regional office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the	Being Complied with

Sr. No.	Stipulation	Compliance Status
	requisite data/ information/ monitoring reports.	
15.	The above conditions shall be enforced, inter-alia under the provision of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Noted.
16.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted.

# ANNEXURE II MONITORING DATA

Six Monthly Report (01st October '2023 to 31st March '2024)

# Reliance Industries Ltd. Jamnagar

#### 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: October '2023

## (1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2925695	2.23	65184
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	230337	0	0
Imported LSWR	20932	0.23	48
Naphtha	35952	0.02	7
Intermediate Stock	3400677	0.11	3604
GRAND TOTAL	6613594	1.04	68843

SO2 Emission, MT/DAY

20.98

Product	Quantity	S%	S
LPG+Propane+Butane	61312	0.000	0
HSD Export	756991	0.03	261
HSD Domestic	228333	0.01	12.5
Kero+ATF	309982	0.22	683
MS	134	0.00	0
Naptha	237235	0.02	47
Coke	303391	7.5	22603
Sulphur	41275	100.0	41275
FO	58827	0.47	276
CBFS	8052	1.2	100
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	826466	0.39	3254
Sub Total	2831997		68517.8
Polypropylene+propylene	25496	No sulphur	0.00
Utility to SEZ	1127	No sulphur	0.00
P-Xylene	93118	No sulphur	0.00
O-Xylene	29215	No sulphur	0.00
Benzene	25694	No sulphur	0.00
Heavy Aromatics	57926	No sulphur	0.0
Loss	3438896	0	0.0
TOTAL	6503471		68518

Month: November '2023

## (1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2788117	2.19	60920
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	273511	0	0
Imported LSWR	10154	0.23	23
Naphtha	49872	0.02	10
Intermediate Stock	3276319	0.06	2012
GRAND TOTAL	6397973	0.98	62967

SO2 Emission, MT/DAY

22.44

Product	Quantity	S%	S
LPG+Propane+Butane	170459	0.000	0
HSD Export	592939	0.03	203
HSD Domestic	327043	0.00	11.3
Kero+ATF	286487	0.22	631
MS	19407	0.01	2
Naptha	296248	0.02	59
Coke	283437	6.2	17431
Sulphur	39864	100.0	39864
FO	60544	0.48	293
CBFS	8894	1.2	111
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	464465	0.86	4017
Sub Total	2549787		62630.0
Polypropylene+propylene	57576	No sulphur	0.00
Utility to SEZ	1064	No sulphur	0.00
P-Xylene	94348	No sulphur	0.00
O-Xylene	28224	No sulphur	0.00
Benzene	23868	No sulphur	0.00
Heavy Aromatics	45157	No sulphur	0.0
Loss	3466200	0	0.0
TOTAL	6266223		62630

Month: December '2023

## (1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2785049	2.12	59127
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	468897	0	0
Imported LSWR	18732	0.23	43
Naphtha	88142	0.02	18
Intermediate Stock	3629812	0.05	1995
GRAND TOTAL	6990631	0.88	61182

**SO2** Emission, MT/DAY

22.14

Product	Quantity	S%	S
LPG+Propane+Butane	425178	0.000	0
HSD Export	602265	0.03	207
HSD Domestic	321794	0.00	11.3
Kero+ATF	295330	0.22	651
MS	49973	0.01	4
Naptha	427616	0.02	85
Coke	298501	7.2	21492
Sulphur	37257	100.0	37257
FO	55915	0.45	253
CBFS	51737	1.2	644
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	82389	0.28	227
Sub Total	2647955		60838.8
Polypropylene+propylene	120423	No sulphur	0.00
Utility to SEZ	1136	No sulphur	0.00
P-Xylene	112293	No sulphur	0.00
O-Xylene	21227	No sulphur	0.00
Benzene	30938	No sulphur	0.00
Heavy Aromatics	49078	No sulphur	0.0
Loss	3863522	0	0.0
TOTAL	6846574		60839

Month: January '2024

## (1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2961822	2.08	61609
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	470790	0	0
Imported LSWR	10735	0.23	25
Naphtha	111205	0.02	22
Intermediate Stock	3656731	0.00	110
GRAND TOTAL	7211284	0.86	61765

SO2 Emission, MT/DAY

21.99

Product	Quantity	S%	S
			_
LPG+Propane+Butane	406309	0.000	0
HSD Export	254446	0.03	85
HSD Domestic	572090	0.00	10.1
Kero+ATF	297440	0.22	656
MS	30039	0.00	1
Naptha	379219	0.02	75
Coke	286422	5.5	15753
Sulphur	35866	100.0	35866
FO	49928	0.44	219
CBFS	36690	1.2	457
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	315842	2.63	8296
Sub Total	2664290		61424.4
Polypropylene+propylene	118651	No sulphur	0.00
Utility to SEZ	1182	No sulphur	0.00
P-Xylene	119322	No sulphur	0.00
O-Xylene	31947	No sulphur	0.00
Benzene	28741	No sulphur	0.00
Heavy Aromatics	47735	No sulphur	0.0
Loss	4062793	0	0.0
TOTAL	7074662		61424

Month: February '2024

## (1) Inputs

	Quantity	S%	S
Total Crude Oil Intake	2688870	2.06	55337
Methanol/Nitrogen/Coke water/Natural Gas/Utility from			
SEZ	443319	0	0
Imported LSWR	1884	0.23	4
Naphtha	102430	0.02	22
Intermediate Stock	3382872	0.07	2309
GRAND TOTAL	6619376	0.87	57672

SO2 Emission, MT/DAY 20.92

Product	Quantity	S%	S
LPG+Propane+Butane	377567	0.000	0
HSD Export	461387	0.03	155
HSD Domestic	441091	0.00	10.7
Kero+ATF	284451	0.22	628
MS	51084	0.01	4
Naptha	356216	0.02	71
Coke	288746	6.2	17902
Sulphur	33569	100.0	33569
FO	48208	0.43	207
CBFS	25310	1.2	315
Sulphur as Sulphide in ETP Influent			6.70
Intermediate Stock	92602	4.86	4500
Sub Total	2460232		57368.6
Polypropylene+propylene	108126	No sulphur	0.00
Utility to SEZ	1160	No sulphur	0.00
P-Xylene	110628	No sulphur	0.00
O-Xylene	28671	No sulphur	0.00
Benzene	28095	No sulphur	0.00
Heavy Aromatics	31006	No sulphur	0.0
Loss	3725070	0	0.0
TOTAL	6492989		57369

#### Reliance Industries Ltd. (Refinery Division). Jamnagar

#### **Monthly Sulphur Balance**

(2) Outputs

#### Month: March '2024

## (1) Inputs

#### S% Quantity **Total Crude Oil Intake** 2990421 2.10 62945 Methanol/Nitrogen/Coke water/Natural Gas/Utility from SEZ 496770 0 0 0.23 13 Imported LSWR 5869 114307 0.02 20 Naphtha Intermediate Stock 3792289 0.20 7758 **GRAND TOTAL** 7399657 0.96 70737

21.43

Product	Quantity	S%	S
110000	Quantity	<b>3</b> 70	
LPG+Propane+Butane	427434	0.000	0
HSD Export	475680	0.03	160
HSD Domestic	367299	0.00	12.6
Kero+ATF	324186	0.22	714
MS	35580	0.00	2
Naptha	521897	0.02	104
Coke	347943	7.0	24356
Sulphur	42418	100.0	42418
FO	56311	0.46	260
CBFS	26159	1.2	326
Sulphur as Sulphide in			6.70
ETP Influent			
Intermediate Stock	219589	0.93	2045
Sub Total	2844497		70404.6
Polypropylene+propylene	120644	No sulphur	0.00
Utility to SEZ	1299	No sulphur	0.00
P-Xylene	80558	No sulphur	0.00
O-Xylene	25621	No sulphur	0.00
Benzene	24711	No sulphur	0.00
Heavy Aromatics	36039	No sulphur	0.0
Loss	4132202	0	0.0
TOTAL	7265571		70405

**SO2 Emission, MT/DAY** 

## Reliance Industries Ltd. (Unit of Reliance Jamnagar SEZ). Jamnagar Monthly Sulphur Balance

Month: October '2023

	INPUT	Quantity (MT)	% S	S (T)
I	Consumption			
1	Total Crude	1586572.23	2.02	31969
2	Intermediate Stock	2701978.03	0.65	17573
3	Naphtha	130269.29	0.00	3
	MPG/Methanol/ Water in			
4	Pet Coke/ Nitogen	14052.30	0.00	0
5	HSGO/VGO	4299.69	0.00	88
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	12543.40	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	4449714.93	·	49635

Sulphur Emission	Tonnes	<u>330</u>
SO2 Emission	Tonnes/day	<u>21.28</u>

II	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	281394.74	0.3780	1063.60
2	High Speed Diesel (HSD)	1570064.43	0.0024	37.54
3	Motor Spirit (MS)+ Reformate	579584.24	0.0006	3.48
4	Alkylate	102063.47	0.0005	0.55
5	Naphtha	240879.23	0.0013	3.20
6	ATF	11972.42	0.00	7.78
	Petroleum Coke (Non-			
7	Calcined)	124700.90	6.10	7605.51
8	Un-Refined Sulphur	32200.84	100.0	32200.84
9	CBFS+VGO+VR+Gas oil	63677.63	0.80	508.62
10	Intermediate Stock	837818.12	0.98	7868.42
11	"S" as sulphide in Effluent			5.08
	Sub Total			
1	Polypropylene	73811.36	0.00	0.00
	Loss	530836.56	0.02	329.90
	Grand Total	4449003.95		49635

## Reliance Industries Ltd. (Unit of Reliance Jamnagar SEZ). Jamnagar Monthly Sulphur Balance

Month: November '2023

	INPUT	Quantity (MT)	% S	S (T)
I	Consumption			
1	Total Crude	2210493.08	2.07	45740
2	Intermediate Stock	2595990.67	0.47	12298
3	Naphtha	67213.51	0.00	2
	MPG/Methanol/ Water in			
4	Pet Coke/ Nitogen	15045.51	0.00	0
5	HSGO/VGO	0.00	0.00	0
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	28244.75	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	4916987.52		58039

Sulphur Emission	Tonnes	<u>322</u>
SO2 Emission	Tonnes/day	<u>21.45</u>

II	OUTPUT	Quantity (MT)	% S	S (T)
II	Product			
	LPG +			
1	Mixpetgas+NG+Nbutane	330217.88	0.1407	464.73
2	High Speed Diesel (HSD)	1565803.41	0.0016	25.10
3	Motor Spirit (MS)+ Reformate	596392.30	0.0006	3.58
4	Alkylate	160805.54	0.0005	0.86
5	Naphtha	274021.56	0.0013	3.51
6	ATF	97915.02	0.00	63.64
	Petroleum Coke (Non-			
7	Calcined)	286715.51	6.12	17546.99
8	Un-Refined Sulphur	34951.72	100.0	34951.72
9	CBFS+VGO+VR+Gas oil	222828.53	0.58	1282.05
10	Intermediate Stock	799451.85	0.45	3369.96
11	"S" as sulphide in Effluent			4.91
	Sub Total			
1	Polypropylene	70249.79	0.00	0.00
	Loss	477634.42	0.02	321.82
	Grand Total	4916987.52		58039

Month: December '2023

	INPUT	Quantity (MT)	% S	S (T)
I	Consumption			
1	Total Crude	2492701.83	2.27	56559
2	Intermediate Stock	2857247.86	0.52	14847
3	Naphtha	72991.78	0.00	2
	MPG/Methanol/ Water in			
4	Pet Coke/ Nitogen	17374.85	0.00	0
5	HSGO/VGO	0.00	0.00	0
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	41185.45	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5481501.77		71408

Sulphur Emission	Tonnes	<u>382</u>
SO2 Emission	Tonnes/day	<u>24.64</u>

OUTPUT	Quantity (MT)	% S	S (T)
Product			
LPG +			
· •	457824.32	0.0145	66.57
High Speed Diesel (HSD)	1652874.38	0.0015	24.17
Motor Spirit (MS)+ Reformate	893249.91	0.0006	5.36
Alkylate	215022.46	0.0005	1.15
Naphtha	264887.31	0.0011	3.04
ATF	124765.32	0.00	81.10
Petroleum Coke (Non-			
Calcined)	346623.67	6.44	22322.56
Un-Refined Sulphur	47094.32	100.0	47094.32
CBFS+VGO+VR+Gas oil	142783.47	0.91	1305.39
Intermediate Stock	669696.75	0.02	117.08
"S" as sulphide in Effluent			5.08
Sub Total			
Polypropylene	102139.85	0.00	0.00
Loss	564540.00	0.03	381.90
Grand Total	5481501.77		71408
	Product  LPG + Mixpetgas+NG+Nbutane High Speed Diesel (HSD)  Motor Spirit (MS)+ Reformate  Alkylate Naphtha ATF Petroleum Coke (Non-Calcined) Un-Refined Sulphur CBFS+VGO+VR+Gas oil Intermediate Stock "S" as sulphide in Effluent  Sub Total Polypropylene	Product         LPG +	Product         LPG + Mixpetgas+NG+Nbutane         457824.32         0.0145           High Speed Diesel (HSD)         1652874.38         0.0015           Motor Spirit (MS)+ Reformate         893249.91         0.0006           Alkylate         215022.46         0.0005           Naphtha         264887.31         0.0011           ATF         124765.32         0.00           Petroleum Coke (Non-Calcined)         346623.67         6.44           Un-Refined Sulphur         47094.32         100.0           CBFS+VGO+VR+Gas oil         142783.47         0.91           Intermediate Stock         669696.75         0.02           "S" as sulphide in Effluent         Sub Total           Polypropylene         102139.85         0.00           Loss         564540.00         0.03

Month: January '2024

	INPUT	Quantity (MT)	% S	S (T)
1	Total Crude	2611010.10	2.32	60602
2	Intermediate Stock	2229522.87	0.45	10046
3	Naphtha	29727.21	0.00	1
	MPG/Methanol/ Water in			
4	Pet Coke/ Nitogen	17568.16	0.00	0
5	HSGO/VGO	96563.08	0.00	1903
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	27799.10	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	5012190.52		72551

Sulphur Emission	Tonnes	<u>357</u>
SO2 Emission	Tonnes/day	<u>23.01</u>

1			
OUTPUT	Quantity (MT)	% S	S (T)
LPG +			
Mixpetgas+NG+Nbutane	349640.18	0.0007	2.44
High Speed Diesel (HSD)	1327917.57	0.0019	25.80
Motor Spirit (MS)+ Reformate	761989.30	0.0006	4.57
Alkylate	222055.53	0.0005	1.19
Naphtha	464896.84	0.0012	5.77
ATF	197198.45	0.00	128.18
Petroleum Coke (Non-			
Calcined)	293540.01	6.12	17955.84
Un-Refined Sulphur	50974.26	100.0	50974.26
CBFS+VGO+VR+Gas oil	31452.15	1.21	381.89
Intermediate Stock	656063.34	0.44	2708.96
"S" as sulphide in Effluent			5.08
Sub Total			
Polypropylene	99765.35	0.00	0.00
Loss	556740.65	0.03	356.72
Grand Total	5012233.61		72551
	LPG + Mixpetgas+NG+Nbutane High Speed Diesel (HSD) Motor Spirit (MS)+ Reformate  Alkylate Naphtha ATF Petroleum Coke (Non-Calcined) Un-Refined Sulphur CBFS+VGO+VR+Gas oil Intermediate Stock "S" as sulphide in Effluent  Sub Total Polypropylene  Loss	LPG +       Mixpetgas+NG+Nbutane       349640.18         High Speed Diesel (HSD)       1327917.57         Motor Spirit (MS)+ Reformate       761989.30         Alkylate       222055.53         Naphtha       464896.84         ATF       197198.45         Petroleum Coke (Non-Calcined)       293540.01         Un-Refined Sulphur       50974.26         CBFS+VGO+VR+Gas oil       31452.15         Intermediate Stock       656063.34         "S" as sulphide in Effluent         Sub Total       99765.35         Loss       556740.65	LPG +   Mixpetgas+NG+Nbutane   349640.18   0.0007     High Speed Diesel (HSD)   1327917.57   0.0019     Motor Spirit (MS)+ Reformate   761989.30   0.0006     Alkylate   222055.53   0.0005     Naphtha   464896.84   0.0012     ATF   197198.45   0.00     Petroleum Coke (Non-Calcined)   293540.01   6.12     Un-Refined Sulphur   50974.26   100.0     CBFS+VGO+VR+Gas oil   31452.15   1.21     Intermediate Stock   656063.34   0.44     "S" as sulphide in Effluent     Sub Total     Polypropylene   99765.35   0.00     Loss   556740.65   0.03

Month: February '2024

	INPUT	Quantity (MT)	% S	S (T)
4	Tatal Cauda	24.002.07.64	2.22	F4022
1	Total Crude	2189297.64	2.33	51033
2	Intermediate Stock	2514986.20	0.59	14815
3	Naphtha	0.00	0.00	0
	MPG/Methanol/ Water in			
4	Pet Coke/ Nitogen	16324.39	0.00	0
5	HSGO/VGO	32380.81	0.00	638
6	LSFO/LSWR/VR	0.00	0.00	0
7	Natural Gas	32341.66	0.00	0
8	Pet Coke	0.00	0.00	0
	Sub Total	4785330.70		66486

Sulphur Emission	Tonnes	<u>358</u>
SO2 Emission	Tonnes/day	<u>24.67</u>

II	ОИТРИТ	Quantity (MT)	% S	S (T)
	LPG +			
1	Mixpetgas+NG+Nbutane	273148.94	0.0007	1.78
2	High Speed Diesel (HSD)	1535196.70	0.0009	13.50
3	Motor Spirit (MS)+ Reformate	795695.54	0.0006	4.77
4	Alkylate	223442.47	0.0005	1.20
5	Naphtha	438641.44	0.0012	5.35
6	ATF	166603.35	0.00	108.29
	Petroleum Coke (Non-			
7	Calcined)	308972.48	6.65	20546.67
8	Un-Refined Sulphur	44249.84	100.0	44249.84
9	CBFS+VGO+VR+Gas oil	59579.79	1.77	1055.87
10	Intermediate Stock	380139.49	0.04	136.41
11	"S" as sulphide in Effluent			4.75
	Sub Total			
1	Polypropylene	90294.74	0.00	0.00
	Loss	469357.09	0.05	357.66
	Grand Total	4785321.85		66486

Month: March '2024

	INPUT	Quantity (MT)	% S	S (T)	II	OUTPUT	Quantity (MT)	% S	S (T)
ı	Consumption				II	Product			
						LPG +			
1	Total Crude	2558824.46	2.18	55846	1	Mixpetgas+NG+Nbutane	450652.95	0.0007	3.35
2	Intermediate Stock	2897032.44	0.45	12968	2	High Speed Diesel (HSD)	1632633.90	0.0011	18.14
3	Naphtha	0.00	0.00	0	3	Motor Spirit (MS)+ Reformate	942063.12	0.0007	6.43
	MPG/Methanol/ Water in								
4	Pet Coke/ Nitogen	32888.81	0.00	0	4	Alkylate	241364.00	0.0005	1.29
5	HSGO/VGO	58826.88	0.00	1159	5	Naphtha	375414.73	0.0012	4.54
6	LSFO/LSWR/VR	0.00	0.00	0	6	ATF	172582.58	0.00	112.18
						Petroleum Coke (Non-			
7	Natural Gas	46006.27	0.00	0	7	Calcined)	311360.95	6.12	19045.95
8	Pet Coke	0.00	0.00	0	8	Un-Refined Sulphur	47977.45	100.0	47977.45
	Sub Total	5593578.87		69973	9	CBFS+VGO+VR+Gas oil	65289.44	1.89	1230.78
					10	Intermediate Stock	724964.02	0.17	1203.50
					11	"S" as sulphide in Effluent			5.08
	Sulphur Emission	Tonnes		<u>365</u>		Sub Total			
					1	Polypropylene	94793.55	0.00	0.00
	SO2 Emission	Tonnes/day		<u>23.54</u>					
		,				Loss	534482.18	0.03	364.81
						Grand Total	5593578.87		69974

#### Reliance Industries Limited (Refinery Division, Jamnagar) Stack Emission Monitoring Results (1st Oct '23 to 31st Mar '24)

Sr.	_	SO2 (mg/Nm3) NOx (mg/Nm3)		Nm3) PM (mg/Nm3)							
No.	Furnace	Stack No.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
I	Stacks Involvin	g Fuel Burning									
Α.	СРР										
1	HRSG-1	MS-EE 951-201	10.2	13.2	11.9	43.0	46.0	44.2	1.0	1.1	1.0
2	HRSG-2	MS-EE 951-202	11.6	12.5	12.0	41.0	46.0	43.3	1.0	1.2	1.1
3	HRSG-3	MS-EE 951-203	10.0	12.5	11.9	40.0	47.0	43.5	1.0	1.2	1.1
4	HRSG-4	MM-RR 771-201	11.4	14.2	12.2	40.0	47.0	44.0	1.0	1.2	1.1
5	HRSG-5	MM-RR 771-202	12.0	12.8	12.4	42.0	48.0	44.5	1.0	1.1	1.0
6	HRSG-6	MM-RR 771-203	11.7	13.4	12.3	45.0	51.0	47.4	1.0	1.1	1.1
7	HRSG-7	MM-RR 771-204	12.5	13.6	13.0	40.0	46.0	42.8	1.0	1.3	1.2
8	HRSG-8	MS-EE 951-204	11.6	12.5	12.0	42.0	49.0	45.3	1.0	1.1	1.0
9	HRSG-9	MS-EE G-201	10.2	13.6	11.9	41.0	50.0	43.5	1.0	1.3	1.2
10	Aux- Blr -1*	MB-RU 771- B010	11.7	13.4	12.5	52.0	62.0	55.6	1.0	1.2	1.1
11	Aux- Blr -2*	MB-RU 771- B011	10.6	226.0	48.1	52.0	66.0	59.0	1.1	6.4	2.1
12	Aux-Blr-3*	MB-EE 951-B010	11.8	12.6	12.1	52.0	60.0	56.2	1.0	1.6	1.2
13	Aux- Blr -4*	MB-EE 951-B011	10.4	174.0	38.8	54.0	66.0	59.7	1.1	4.5	2.0
14	Aux-Blr-5*	MB-EE 952-B010	12.0	240.0	50.7	57.0	69.0	60.0	1.4	5.8	2.4
15	Aux- Blr -6*	MB-EE 952-B011	10.2	156.0	36.0	56.0	64.0	60.8	1.0	7.2	2.2
B.	Crude Complex	K									
1	CDU-1-FO1*	MB-RD311-F01	14.6	186.0	140.5	45.0	49.0	46.8	1.3	5.8	4.3
2	CDU-1 -F51*	MB-RD311-F51	108.0	186.0	166.2	44.0	49.0	46.3	3.9	5.5	4.8
3	VDU-1	MB-RD311-F02	11.2	12.4	11.9	38.0	41.0	39.2	1.0	1.1	1.1
4	CDU-2-FO1*	MB-RD312-F01	116.0	191.0	172.0	44.0	50.0	47.8	3.9	5.2	4.4
5	CDU-2 -F51*	MB-RD312-F51	96.1	188.0	163.9	44.0	51.0	47.2	3.7	5.8	4.7
6	VDU-2	MB-RD312-F02	10.8	13.8	12.4	34.0	37.0	35.2	1.0	1.2	1.1
7	DHT-1	MB-RH351-F01	10.2	12.6	11.7	32.8	39.0	36.1	1.0	1.4	1.2
8	DHT-2	MB-RH352-F01	11.6	13.7	12.2	33.0	39.0	35.2	1.0	1.1	1.0
9	VGO HT- 1	MB-RH361-F02	11.6	12.9	12.3	34.0	40.0	37.0	1.0	1.5	1.1
10	VGO HT- 2	MB-RH362-F02	10.2	12.2	11.0	30.0	37.0	33.0	1.1	1.2	1.2
11	LNHT	MB-RH471-F01	10.2	12.1	11.4	31.0	36.0	34.0	1.0	1.0	1.0
12	Hydrogen-1	MB-RH521-SO1				Not i	n Operat	ion			
13	Hydrogen-2	MB-RH522-SO1				Not i	n Operat	ion			
14	Hydrogen-3	MB-RH523-SO1				Not i	n Operat	ion			
15	KHT	MB-RH-365-F02	10.2	12.7	11.8	34.0	40.0	36.2	1.0	1.3	1.1
16	CNHT	MB-RH-222-F01	9.8	12.1	11.3	33.0	38.0	35.2	1.0	1.2	1.1
C.	Aromatics										
1	Platforming	MB-AY231-F01	12.5	14.6	13.9	36.0	44.1	39.3	1.0	1.4	1.2
2	HNHT	MB-AY221-F01	11.6	13.2	12.6	34.0	41.0	36.1	1.0	1.2	1.1
3	Xylene -1	MB-AY241-F01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Xylene -2	MB-AY242-F01	12.5	76.0	40.7	39.0	45.0	40.7	1.0	3.8	2.6

# Reliance Industries Limited (Refinery Division, Jamnagar) Stack Emission Monitoring Results (1st Oct '23 to 31st Mar '24)

Sr.	F	C4L-N-	S	O2 (mg/Nn	13)	NO	x (mg/N	m3)	]	PM (mg/Nm	3)
No.	Furnace	Stack No.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
5	Xylene -3	MB-AY243-F01	13.3	72.0	41.0	38.0	42.0	38.8	1.0	4.2	3.2
6	O-Xylene	MB-AY251- F01A	11.6	15.0	12.5	36.0	41.0	38.7	1.1	1.4	1.2
7	Isomar 1	MB-AY271-F01		SHUTDOWN							
8	Isomar 2	MB-AY272-F01	10.2	13.1	12.3	33.0	41.0	39.0	1.1	1.2	1.1
9	Isomar 3	MB-AY273-F01	10.6	14.5	12.6	35.0	39.0	37.0	1.0	1.2	1.1
10	Tatoray-1	MB-AY281-F01	12.1	13.4	12.8	33.0	40.0	36.5	0.0	0.0	0.0
11	Tatoray-2	MB-AY281-F51	9.8	12.8	12.1	36.0	42.0	38.0	1.0	1.0	1.0
D.	Coker										
1	Coker-1	MB-RK371-F01	12.5	14.6	13.2	36.0	42.0	38.2	1.0	1.3	1.2
2	Coker-2	MB-RK371-F02	12.4	12.8	12.6	32.0	36.0	34.4	1.0	1.1	1.1
3	Coker-3	MB-RK371-F03	11.6	13.8	12.8	35.0	48.0	38.2	1.2	1.3	1.2
4	Coker-4	MB-RK371-F04	10.2	14.2	11.7	33.0	39.0	36.3	1.1	1.3	1.2
5	Coker-5	MB-RK371-F07	11.0	13.4	12.0	31.0	41.0	37.2	1.0	1.2	1.1
II	Stacks Involvin	g Process Emission									
A.	FCC Complex										
1	FCCC-N	MB-RF412-S01	14.2	15.2	14.6	38.0	42.0	39.9	6.9	8.9	7.9
2	FCCC-S	MB-RF412-S51	13.6	13.9	13.8	35.0	39.0	37.3	6.5	8.4	7.4
В.	Sulphur Compl	lex									
1	SRU-1	MB-RH451-SO1	1082.0	1450.0	1244.2	55.0	57.0	56.2	NA	NA	NA
2	SRU-2	MB-RH452-SO1	1086.0	1718.0	1359.0	51.0	58.0	54.0	NA	NA	NA
3	SRU-3	MB-RH453-SO1	1435.0	1860.0	1597.0	52.0	58.0	54.3	NA	NA	NA
C.	ETP-Incinerato	r									
1	Incinerator	_	24.8	28.5	26.3	28.0	38.0	31.3	8.2	9.6	8.7
III	Stacks Involvin	g Material Handling									
Α.	SGU										
1	SGU-1	MF-RH-465-Y-01	NA	NA	NA	NA	NA	NA	8.1	9.5	9.0
2	SGU-2	MF-RH-465-Y-02	NA	NA	NA	NA	NA	NA	7.4	9.8	8.8

Note: \* Furnaces / Heaters were on dual (liquid+gas) firing & others were on gas firing during sampling.

#### 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/Nr	n3	P	M mg/Nm	13
No.	to	Stack No.	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG
I	Stacks Involvin	g Fuel Burning									
A.	CPP										
1	HRSG-1	MB-BBZ9H1-B01	10.2	12.2	11.1	43.0	46.0	44.0	1.1	1.2	1.2
2	HRSG-2	MB-BBZ9H2-B01	11.6	14.7	12.6	40.0	46.0	43.0	1.0	1.3	1.1
3	HRSG-3	MB-BBZ9H3-B01	9.8	11.5	10.6	44.0	48.0	46.4	1.0	1.4	1.2
4	HRSG-4	MB-BBZ9H4-B01	12.1	12.6	12.3	41.0	45.0	43.2	1.1	1.2	1.2
5	HRSG-5	MB-BBZ9H5-B01	10.2	15.5	11.5	41.0	49.0	43.8	1.0	1.4	1.1
6	HRSG-6	MB-BBZ9H6-B01	11.2	16.3	12.5	42.0	52.0	44.8	1.0	1.5	1.3
7	Aux-Boiler-1*	MB-BBZ9B1-B01	12.2	13.4	12.8	56.0	62.0	59.7	1.1	1.2	1.1
8	Aux-Boiler-2*	MB-BBZ9B2-B01	11.3	162.0	41.8	58.0	66.0	60.8	1.0	6.9	2.5
9	Aux-Boiler-3*	MB-BBZ9B3-B01	9.8	11.8	10.9	57.0	66.0	62.4	1.2	1.3	1.3
10	Aux- Boiler-4*	MB-BBZ9B4-B01	10.0	196.0	120.3	62.0	68.0	65.3	1.0	5.4	3.5
B.	Crude Complex	x									
1	CDU-1-FO1*	MB-RDZ311-F01	11.6	164.0	58.2	42.0	46.0	43.8	1.0	3.4	1.6
2	CDU-1-F51*	MB-RDZ311-F51	13.4	165.0	39.5	35.0	45.0	41.5	1.0	6.0	2.5
3	VDU-1	MB-RDZ311-F02	10.2	12.6	11.4	33.0	39.0	36.2	1.1	1.2	1.2
4	CDU-2-FO1*	MB-RDZ312-F01	12.0	126.0	31.7	40.0	48.0	43.0	1.2	4.6	2.0
5	CDU-2-F51*	MB-RDZ312-F51	12.2	14.8	13.3	40.0	45.0	43.0	1.0	1.5	1.2
6	VDU-2	MB-RDZ312-F02	10.4	13.1	11.8	34.0	39.0	35.7	1.0	1.2	1.1
7	VGOHT- 1	MB-RHZ361-F01/F02	10.6	12.4	11.6	31.0	40.0	33.8	1.0	1.2	1.1
8	VGOHT- 1	MB-RHZ361-F03	9.6	12.8	11.1	29.0	37.0	34.8	1.0	1.4	1.2
9	VGOHT- 2	MB-RHZ362-F01/F02	10.2	12.8	10.9	31.0	37.0	34.0	1.0	1.2	1.1
10	VGOHT- 2	MB-RHZ362-F03	9.8	12.5	10.5	33.0	36.0	34.5	1.0	1.2	1.1
C.	Hydrogen & M	erox Complex									
1	Hydrogen-4	MB-RHZ524-S01				Not	t in Opera	tion			
2	Hydrogen-5	MB-RHZ523-S01				Not	t in Opera	tion			
3	Hydrogen-6	MB-RHZ522-S01				Not	t in Opera	tion			
4	Hydrogen-7	MB-RHZ521-S01				Not	t in Opera	tion			
5	Hydrogen-8	MB-RHZ525-S01				Not	t in Opera	tion			
D.	Coker									•	
1	Coker-1	MB-RKZ371-F01	10.5	13.4	12.3	32.0	39.0	35.0	1.0	1.0	1.0
2	Coker-2	MB-RKZ371-F02	11.6	14.1	13.0	33.0	37.0	35.7	1.0	1.4	1.2
3	Coker-3	MB-RKZ371-F03	10.9	13.4	12.3	34.0	41.0	37.0	1.0	1.2	1.1
4	Coker-4	MB-RKZ371-F04	10.2	12.9	11.9	33.0	39.0	35.5	1.1	1.1	1.1
5	Coker-5	MB-RKZ371-F07	10.0	13.3	11.7	32.0	40.0	34.8	1.0	1.3	1.1
E.	Clean Fuel Pro	ject								•	
1	DHDS-1	MBRHZ355-F01A	11.7	13.5	12.6	37.0	44.0	40.2	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 Attached	d Stack No.	S	O2 mg/Nr	n3	N	OX mg/Nı	n3	P	M mg/Nm	13
No.	to	Stack No.	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG
2	DHDS-1	MBRHZ355-F01B	11.1	12.1	11.6	35.0	38.0	36.3	1.0	1.3	1.2
3	DHDS-2	MBRHZ358-F01A	10.2	13.0	11.5	34.0	38.0	36.3	1.0	1.3	1.1
4	DHDS-2	MBRHZ358-F01B	10.1	13.6	11.9	31.0	36.0	34.2	1.0	1.4	1.2
5	DHDS-2	MBRHZ358-F02	10.9	12.6	12.0	29.0	39.0	34.0	1.0	1.6	1.3
6	Common Facilities	MBRHZ357-F01	11.2	12.1	11.7	28.0	41.0	35.0	1.0	1.3	1.2
7	LCOHC	MBRHZ354-F01	10.2	13.8	11.8	34.0	40.0	36.0	1.0	1.4	1.2
F.	Aromatics										
1	Platformer	MB-AYZ231-F02	11.3	12.4	11.8	30.0	36.0	33.2	1.0	1.2	1.1
2	Platformer	MB-AYZ231-F01/F03	11.1	11.9	11.6	31.0	34.0	32.8	1.0	1.3	1.2
3	Platformer	MB-AYZ231- F01A/F03A	11.3	13.6	12.8	31.0	39.0	35.2	1.0	1.4	1.2
4	HNUU	MB-AYZ221-F01/F02	12.4	13.0	12.7	30.0	35.0	32.6	1.1	1.2	1.2
G.	Alkylation										
1	SAR	MB-RFZ430-F41	10.1	11.6	11.1	32.0	40.0	36.0	1.0	1.2	1.1
II	Stacks Involvin	ng Process Emission									
A.	FCC Complex										
1	FCC-N	MB-RFZ412-S01	13.8	15.4	14.8	39.0	45.0	41.7	5.8	8.2	6.9
2	FCC-S	MB-RFZ412-S51	14.9	16.2	15.6	38.0	46.0	42.0	5.8	7.5	7.0
B.	Sulphur Comp	lex									
1	SRU-1	MB-RHZ451-S01	448.0	679.0	581.0	52.0	58.0	54.5	NA	NA	NA
2	SRU-2	MB-RHZ452-S01	482.0	870.0	617.8	52.0	58.0	55.2	NA	NA	NA
3	SRU-3	MB-RHZ453-S01	359.0	522.0	466.3	48.0	56.0	54.0	NA	NA	NA
C.	Alkylation										
1	SAR	MB-RFZ430-S01	164.0	224.0	177.8	NA	NA	NA	NA	NA	NA
III	Stacks Involvin	ng Material Handling									
A.	Sulphur Pestill	lation Unit									
1	SPU-1	MA-RHZ465-F01A/B	NA	NA	NA	NA	NA	NA	8.4	9.6	8.4
2	SPU-2	MA-RHZ465-F02A/B	NA	NA	NA	NA	NA	NA	8.0	9.8	8.0

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.	SC	02 (mg/Nr	n3)	NC	OX (mg/N	m3)	PI	M (mg/Nn	n3)
No.	Attached t	0		MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG
	PX-4 Complex											
1	Xylene Recover Column Reboile		MB-AYZ241- F000001A/B	11.6	12.8	12.3	33.0	37.0	35.0	1.0	1.2	1.1
2	Isomer Charge I	Heater	MB-AYZ271- F000001A/B	11.0	12.2	11.7	33.0	36.0	34.6	1.0	1.2	1.1
3	TA Charge Hear	ter	MB-AYZ281- F000001	12.2	13.8	13.0	35.0	38.0	36.2	1.0	1.0	1.0
4	TA Stabilizer H	eater	MB-AYZ281- F000002	12.0	13.7	13.1	31.0	40.0	35.4	1.3	1.3	1.3
5	Toluene Columi Reboiler	1	MB-AYZ281- F000003	10.9	12.2	11.4	37.0	40.0	37.8	1.1	1.4	1.2
6	HA Column Rel	ooiler	MB-AYZ281- F000004	8.8	11.2	10.3	35.0	39.0	36.2	0.0	0.0	0.0
A	C2-COMPLEX	K "CPI	ייי									
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-COMPLEX	X "ROO	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	MB-BB	D9H1-B-001	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 Oct '2023 to 31st Mar '2024)

Sr.	Stack	Stack No.	S	O2 (mg/N	m3)	NO	Ox (mg/Nn	13)	P	M (mg/Nm	3)		CO (mg/Nn	13)
No.	Attached to	Stack 1 (0)	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	2.5	7.5	5.0	12.5	225.0	29.0	0.3	0.8	0.5	5.0	89.7	10.0
2	HRSG-2	MB-BBZ9H2-B01	28.1	657.7	45.5	12.6	155.3	24.9	2.1	7.3	4.5	5.0	131.7	33.1
3	HRSG-3	MB-BBZ9H3-B01	2.6	126.9	29.3	12.5	66.9	27.6	0.4	7.5	0.8	5.0	90.0	12.5
4	HRSG-4	MB-BBZ9H4-B01	2.5	125.7	6.5	12.5	236.7	25.2	0.4	7.3	0.5	17.3	18.3	17.9
5	HRSG-5	MB-BBZ9H5-B01	2.5	100.1	19.7	12.6	187.9	34.7	0.5	5.8	0.6	5.0	88.6	10.0
6	HRSG-6	MB-BBZ9H6-B01	4.0	127.4	12.0	12.5	52.4	25.1	0.3	7.5	0.5	5.0	22.4	10.1
7	Aux- Boiler-1	MB-BBZ9B1-B01	2.9	127.5	84.8	13.0	52.5	35.0	0.7	7.5	5.0	7.5	22.5	15.0
8	Aux- Boiler-2	MB-BBZ9B2-B01	2.7	127.5	84.8	12.7	52.5	35.1	0.3	45.0	5.0	6.4	22.5	15.0
9	Aux- Boiler-3	MB-BBZ9B3-B01	2.6	127.5	58.1	13.9	52.5	31.6	0.3	45.0	4.2	5.7	22.5	13.3
10	Aux- Boiler-4	MB-BBZ9B4-B01	2.5	127.5	77.9	17.5	52.5	35.2	0.3	7.5	4.6	5.0	22.5	14.5
B.	Crude Complex	X												
1	CDU-1-FO1*	MB-RDZ311-F01	2.5	406.6	118.0	12.5	218.0	62.2	0.8	24.0	2.5	5.0	108.4	9.6
2	CDU-1-F51*	MB-RDZ311-F51	2.5	391.9	24.8	12.5	106.0	24.6	0.3	24.9	4.3	5.0	111.3	10.5
3	VDU-1	MB-RDZ311-F02	2.5	45.0	8.7	12.5	224.0	33.1	0.5	4.2	0.6	5.0	90.0	10.1
4	CDU-2-FO1*	MB-RDZ312-F01	2.5	137.0	25.5	12.5	262.3	26.5	0.3	28.8	3.2	5.0	115.4	25.0
5	CDU-2-F51*	MB-RDZ312-F51	2.5	184.7	37.8	12.5	301.5	26.3	0.3	44.9	1.0	5.0	135.0	16.4
6	VDU-2	MB-RDZ312-F02	2.5	45.0	8.0	12.5	216.8	24.9	0.3	4.5	0.5	5.0	85.1	10.0
7	VGOHT- 1	MB-RHZ361-F01/F02	5.0	44.8	18.8	25.0	220.7	37.5	1.0	4.5	1.3	10.0	89.9	14.7

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

1. Continuous Online Stack Emission Monitoring Results (1st Oct '2023 to 31st Mar '2024)

Sr.	Stack	Stack No.	S	O2 (mg/N	(m3)	N	Ox (mg/Nn	13)	P	M (mg/Nm	3)		CO (mg/Nn	13)
No.	Attached to	Stack 110.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
8	VGOHT- 2	MB-RHZ362-F01/F02	5.0	45.0	12.0	25.0	214.8	35.9	0.5	4.5	1.6	10.0	90.0	15.7
C.	Hydrogen & M	erox 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			<del></del>								•		
1	Coker-1	MB-RKZ371-F01	5.4	45.0	26.0	25.0	224.1	35.5	0.5	4.5	0.7	10.0	90.0	15.9
2	Coker-2	MB-RKZ371-F02	6.0	45.0	30.7	25.0	217.4	37.3	0.5	1.0	0.8	10.0	90.0	15.5
3	Coker-3	MB-RKZ371-F03	5.3	45.0	23.0	25.0	217.1	41.0	0.5	4.1	0.7	10.0	90.0	15.3
4	Coker-4	MB-RKZ371-F04	5.0	45.0	11.0	25.0	220.8	58.9	0.5	4.5	0.8	10.0	90.0	17.9
Ε.	Clean Fuel Pro	ject												
1	DHDS-1	MBRHZ355-F01A	7.1	43.0	20.7	25.0	219.1	37.5	0.5	2.4	0.7	10.0	85.0	20.8
2	DHDS-1	MBRHZ355-F01B	5.0	45.0	8.6	25.0	223.9	39.2	0.5	4.1	0.8	10.0	90.0	23.6
3	DHDS-2	MBRHZ358-F01A	5.0	45.0	10.9	25.0	217.6	37.5	0.5	1.0	0.8	10.0	90.0	24.9
4	DHDS-2	MBRHZ358-F01B	5.0	45.0	13.7	25.0	222.7	37.3	0.5	4.5	0.6	10.0	90.0	33.2
5	DHDS-2	MBRHZ358-F02	5.0	45.0	8.7	25.0	219.9	37.1	0.5	4.5	0.8	10.0	90.0	37.3
6	Common Facilit	ies MBRHZ357-F01	5.0	45.0	41.3	25.0	223.9	37.5	1.1	4.4	1.4	10.0	90.0	15.2
7	LCOHC	MBRHZ354-F01	5.2	45.0	25.5	25.0	218.5	37.5	0.5	1.0	0.7	10.0	86.8	16.4
F.	Aromatics													
1	Platformer	MB-AYZ231-F02	5.0	45.0	28.4	25.0	217.5	37.1	0.5	4.5	0.8	10.0	80.5	15.0

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

1. Continuous Online Stack Emission Monitoring Results (1st Oct '2023 to 31st Mar '2024)

Sr.	Stack	Stack No.	S	O2 (mg/N	m3)	NO	Ox (mg/Nm	13)	P	M (mg/Nm	13)		CO (mg/Nn	13)
No.	Attached to	Stack 110.	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
2	Platformer	MB-AYZ231-F01/F03	5.0	45.0	28.0	25.0	225.0	56.6	0.6	4.5	0.9	10.0	90.0	14.7
3	HNUU	MB-AYZ221-F01/F02	5.0	45.0	22.8	25.0	215.6	35.5	0.5	4.5	1.0	10.0	89.7	15.1
G.	Alkylation													
1	SAR	MB-RFZ430-F41	5.0	45.0	8.1	25.0	224.4	55.1	0.5	4.5	0.9	10.0	90.0	18.8
II	Stacks Involvin	ng Process Emission												
A.	FCC Complex													
1	FCC-N	MB-RFZ412-S01	50.0	445.7	89.3	35.0	307.5	50.7	5.2	45.0	15.7	30.0	270.0	46.7
2	FCC-S	MB-RFZ412-S51	50.0	449.0	96.3	35.0	312.4	80.0	5.4	45.0	30.2	30.0	270.0	47.4
В.	Sulphur Comp	lex												
1	SRU-1	MB-RHZ451-S01	30.0	270.0	81.5	25.0	214.2	37.7		NA		10.0	88.8	15.0
2	SRU-2	MB-RHZ452-S01	30.0	270.0	204.6	25.0	224.8	46.0		NA		10.0	90.0	17.5
3	SRU-3	MB-RHZ453-S01	30.0	270.0	154.3	25.0	50.0	37.5		NA		10.0	20.0	15.0
C.	Alkylation								•			•	•	
1	SAR	MB-RFZ430-S01	95	855	240					Not Applic	able			·

# 2. Continuous Online Effluent Monitoring Results (1st Oct '2023 to 31st Mar '2024):

Parameters	Units	MIN	MAX	AVG
Flow	Cum/hr	0	475	190
рН	-	6.6	8.2	7.4
TSS	ppm	2.0	18.0	7.7
BOD	ppm	2.0	12.0	6.5
COD	ppm	12.0	115.0	58.2

11-Oct-23				11-0ct-2	1		
Lim	CBA production MT/day	S02 emission	Sulphur Recovery Efficiency	Unit	CBA production MT/day	902 emission ppm	Sulphur Recovery Efficiency
451	502.77	ppm 370.2	99.87%	451	400.59	376.3	99.85%
452	455.71	717.0	99.71%	452	399.29	595.1	99,75%
453	497.38	726,0	99.73%	453	400.28	907.0	99.62%
. 122	1455,86	AVG >>	99.77%		1206.16	AVG >>	99,74%
2-Oct-23				12-0ct-2	1		
Unit	CBA production	502 emission	Sulphur Recovery Efficiency	Unit	CBA production	50x emission	Sulphur Recover
UNIL	MT/day	ppm	Embericy	una	MT/day	ppm	Efficiency
451	507.63	411.6	99.85%	451	419.48	356.n	99.86%
452	436.29	273.2	99.69%	452	418.22	585.8	99.76%
453	509.63	784.0	99.71%	453	426.98	903.2	99.63%
	1453.54	AVG >>	99.75%	_	1264.68	AVG >>	99.75%
3-Oct-23	Ĺ			13-0ct-2	3		
Unit	CBA production	S02 emission	Sulphur Recovery	Unit	CBA production	SD2 emission	Sulphur Recovery
464	MT/day	øpm.	Efficiency	2001	MT/day	ppm	Efficiency
451	509.85	420.B	99.85%	451	431.98	366.3	99.86%
452	414.66	443.5 625.1	99.82%	452 453	430.64 438.96	935.3	99.63%
433	507.50	AVG >>	99.79%	130	1301.58	NVG >>	99.75%
					110000	111111111111111111111111111111111111111	1000
14-Oct-23	Description of the last of the	SOZ emission	Sulphur Recovery	14-0ct-2	C8A production	S02 emission	Sulphor Recovery
Unit	CBA production MT/day	SOS estimados	Efficiency	Unit	MT/Gay	ppm ppm	Efficiency
451	498.73	419.0	99.85%	451	450.76	375.0	99.86%
-52	439.95	467.8	99.81%	452	449.22	616.5	99.76%
3	490.63	839.2	99.68%	453	457.29	961.4	99.62%
	3429.31	AVG >>	99.78%		1357.26	AVG >>	99.75%
15-Oct-23				15-0ct-2			-
.Unit.	CBA production	502 emission	Sulphur Recevery Efficiency	Unit	CBA production	S02 emission	Sulphur Recovery Efficiency
451	HT/day	ppm	99.80%	451	MT/day 457.92	270.5	99,86%
452	533.60 451.46	553.3 609.6	99.76%	452	456.65	600.4	99,77%
453	546.50	996.3	99.64%	453	465.86	967.6	99.62%
16-Oct-23							
linit.	CBA production	502 emission	Sulphur Recovery				
120,000	MT/day	ppm	Efficiency				
453	544,36	592.7	99.79%				
452	518.34	660.2	99,75%				
453	552.99 1615.69	1039.1 AVG >>	99.72%				
	1015/05	Arg 22	79.74.9				
7-Oct-23		502 emission	Sulphur Recovery				
Uwit	CBA production MT/day	502 emission	Efficiency				
451	522.21	529.6	99.81%				
	520.54	649.3	99.75%				
452			400.1 419				
13	527,64	. 996.4	99.62%				
	527,64 3370.40	996.4 AVG >>					
33	3570.40		99.62% 99.73%				
	SS70.40 CBA production	AVG >> SOZ emission	99.62% 99.73% Sulphur Recovery				
53 08-Oct-23 Unit	CBA production MT/day	SOZ emission spm	59.52% 59.73% Sulphur Recovery Efficiency				
13 08-Oct-23 Unit 451	CBA production MT/day 473.48	SOZ emission ppm 507.3	59,52% 59,73% Sulphur Recovery Officiency 59,81%				
53 08-Oct-23 Unit	2570.40 CBA production MT/day 473.48 471.80	502 emission 507.3 638.8	59.52% 59.73% Sulphur Recovery Efficiency				
13 08-0ct-23 Unit 451 452	CBA production MT/day 473.48	SOZ emission ppm 507.3	99.52% 99.73% Sulphur Recovery efficiency 99.81% 59.75%				
451 452 453	2570.40 CBA production MT/day 423.48 471.40 460.21 1425.49	SO2 emission spm 507.3 638.8 976.9	99.52% 99.73% Sulphur Recovery Efficiency 99.81% 99.75% 99.82%				
13 08-0ct-23 Unit 451 452	2570.40 CBA production MT/day 423.48 471.40 460.21 1425.49	SO2 emission spm 507.3 638.8 976.9	99.52% 99.73% Sulphur Recovery Efficiency 99.81% 99.75% 99.82%				
451 452 453 Unit	2570.40 CBA production MT/day 473.48 471.80 460.21 1425.49 CBA production MT/day	502 emission 507.3 507.3 538.8 976.9 AVG >> 502 emission 509	59,52% 59,73% Sulphur Recovery efficiency 59,81% 59,75% 59,82% 99,73% Sulphur Recovery Efficiency				
53 Unit 451 452 453 Unit 451 453 Unit	2570.40  CBA production MT/day 473.48 471.40 480.21 1425.49  CBA production MT/day 453.59	AVG >>  502 emission 507.3 538.8 976.9 AVG >>  502 emission 509.4 459.1	99.52% 99.73% Sulphur Recovery efficiency 99.81% 59.75% 99.82% 99.73% Sulphur Recovery efficiency 99.83%				
53 Unit 451 452 453 Unit 451 453 Unit 451 451 451	2570.40 CBA production MT/day 473.48 471.40 460.21 3425.49 CBA production MT/day 453.59 453.59	502 emission 507.3 538.8 976.9 AVG >> 502 emission 507.4 512.9	99.52% 99.73% Sulphur Recovery Efficiency 99.81% 99.75% 99.82% 99.73% Sulphur Recovery Efficiency 99.83% 99.75%				
53 Unit 451 452 453 Unit 451 453 Unit	2570.40 CBA production MT/day 472.48 471.80 460.21 1425.49 CBA production MT/day 453.59 452.20 460.26	SOZ emission spm spm spm spm spm spm spen avg >> SOZ emission spm 459 1 s12.9 s50.1	99.52% 99.73% Sulphur Recovery Efficiency 99.81% 99.75% 99.73% 99.73% Sulphur Recovery Efficiency 99.83% 99.75% 99.83%				
53 Unit 451 452 453 Unit 451 453 Unit 451 452 453	2570.40 CBA production MT/day 473.48 471.40 460.21 1425.49 CBA production MT/day 453.59 452.20 450.25 1366.05	502 emission 507.3 538.8 976.9 AVG >> 502 emission 507.4 512.9	99.52% 99.73% Sulphur Recovery Efficiency 99.81% 99.75% 99.82% 99.73% Sulphur Recovery Efficiency 99.83% 99.75%				
53 Unit 451 452 453 Unit 451 453 Unit 451 453 Unit 451 453 Unit 451 453	2570.40  CBA production MT/day 473.48 471.40 460.21 1425.49  CBA production MT/day 453.59 452.20 460.26	SOZ emission 507.3 638.8 976.9 AVG >> 502 emission 509 459.1 512.9 950.1 AVG >>	99.52% 99.73% Sulphur Recovery efficiency 99.81% 99.75% 99.82% 99.73% Sulphur Recovery Efficiency 99.83% 99.73% 99.73%				
53 Unit 451 452 453 Unit 451 453 Unit 451 452 453	2570.40  CBA production MT/day 472.48 471.80 460.21 1425.49  CBA production MT/day 453.59 452.20 450.25 1366.05	SOZ emission 507.3 638.8 976.9 AVG >> 502 emission 690 459.1 512.9 950.1 AVG >>	99.52% 99.73% Sulphur Recovery Efficiency 99.81% 99.75% 99.73% 99.73% Sulphur Recovery Efficiency 99.83% 99.75% 99.83%				
53 Unit 451 452 453 Unit 451 453 Unit 451 453 Unit 451 453 Unit	2570.40  CBA production MT/day 473.48 471.40 480.21 1425.49  CBA production MT/day 453.59 452.20 450.26 1366.05	502 emission 507.3 538.8 976.9 AVG >> 502 emission 699.1 512.9 950.1 AVG >>	99.52% 99.73% Sulphur Recovery efficiency 99.81% 99.75% 99.75% 99.73% Sulphur Recovery 89.83% 99.75% 99.75% 99.74%				
53 Unit 451 452 453 Unit 451 453 Unit 451 453 Unit 451 453 Unit 451 453	2570.40  CBA production MT/day 472.48 471.80 460.21 1425.49  CBA production MT/day 453.59 452.20 450.25 1366.05	SOZ emission 507.3 638.8 976.9 AVG >> 502 emission 690 459.1 512.9 950.1 AVG >>	59,52% 59,73% Sulphur Recovery efficiency 59,81% 59,75% 59,82% 59,75% 59,72% Sulphur Recovery 68,63% 59,75% 59,75% 59,75% 59,75% 59,75% 59,75% 59,75% 59,75% 59,75% 59,75%				

6-Oct-23	PRA ANTONIO I	200 000000	Sulphur Recovery	25-Oct-23	CBA production	502 emission	Sulphur Recovery
Unit	CBA production MT/day	502 emission opm	Efficiency	Unit	MT/day	pom pom	Efficiency
451	447.31	448.5	99.83%	451	406.82	350.2	99.86%
452	465.79	661.0	99.74%	452	410.92	674.6	99.72%
453	477.26	1068.7	99.59%	453	404.07	1025.2	99.56%
420	1390.36	AVG >>	99.72%	122	1221.80	AVG>>	99.71%
2 0-4 22	10000	ALCOHOL:	A 34000 Ala	26-Oct-23			
7-Oct-23 Unit	CBA production	902 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recovery
	MT/day	900	Efficiency		MT/day	pom	Efficiency
451	458.04	416.9	99.84%	451	415.34	376.4	99.85%
452	453.56	648.2	99.75%	452	416.64	691.8	99.72%
453	468.25	1075.2	99.59%	453	417.11	1011.9	99.57%
-	1379.84	AVG>>	99.73%		1249.09	< 2VA	99.71%
8-0ct-23				27-Oct-23			
Unit	CSA production	SC2 emission	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Recovery Efficiency
	MT/day	ppm	Efficiency		MT/day	ppm	
451	449.91	407.6	99.85%	451	394.14	367.2	99.85%
452	468.90	652.4	99.75%	452 453	394.02	582.3	99.58%
453	470.72	1087.5	99.59%	433	396.27	973.9	99.71%
	1389.53	AVG >>	99.73%		1184,43	AVG >>	29.71%
9-0ct-23	COL and all a	S02 emission	Sulphur Recovery	28-Oct-23 Unit	CBA production	SO2 emission	Sulphur Recovery
Unit	CBA production		Efficiency	unit	- man ( ) 4 ( ) 2		Efficiency
451	MT/day	200.4	99.85%	451	MT/day 381.14	ppm 360.6	99.85%
market and a second	440.98	390.6 667.1	99.75%	452	376.59	579.1	99.71%
452	477,21		99.59%	453	385.49	962.1	99.57%
453	3383.96	1074.6 AVG >>	99.73%	192	1143.22	AVG >>	99.71%
$\sim$	9303.20	more	310.24	-	***************************************	1000	
0-Oct-23				29-Oct-23			
Unit	CBA production	502 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
0.00	MT/day	pam	Efficiency	2000	MT/day	ppm	Efficiency
451	442,67	663.0	99,75%	451	376.06	349.2	99.85%
452	492,36	1057.3	99.61%	452	378,90	676.0	99.71%
453	516.46 1451:50	1163.7 AVG >>	99.58%	453	375.55 1130.51	946.6 AVG >>	99.58%
.www.e-or	2720125			0.000.000			
Unit	CBA production	S02 emission	Sulphur Recovery	30-Oct-23	CBA production	502 emission	Sulphur Recovery
-	MT/day	pam	Efficiency	7000	MT/day	орт	Efficiency
451	448.08	627.4	99.76%	451	385.49	355.0	99.86%
452	522.20	1029.5	99.63%	452	377,47	674.6	99.71%
453	527.96	1281.1	99.53%	453	395.69	559.7	99.58%
	1498.24	AVG >>	99.64%		1158.65	AVG >>	99.72%
2-Oct-23				31-0ct-23			
Unit	CBA production	SOZ emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recovery
	MT/day	ppm	Efficiency	J. 30001	MT/day	dom	Efficiency
451	442,15	529.0	99.80%	451	417.17	353.8	.99.85%
452	522.28	881.1	99.68%	452	395.73	672.3	99.72%
453	515.22	1240.4	99.54%	453	443.56	580.7	99.60%
-	1479,55	AVG >>	99.67%		1256.45	AVG >>	99.73%
3-0ct-23							
Unit	CBA production	SOZ emission	Sulphur Recovery				
	MT/day	ppm	Efficiency				
453	439.93	515.7	99.81%				
452	498.31	851.6	99.68%				
452	454.35	1204.5	99.52%				
CONTRACTOR CO.	1392.58	AVG >>	99.67%				
4-0ct-23	-						
	CBA production	SOZ emission ppm	Sulptur Recevery Efficiency				
Unit	MTMak		and the second second				
	MT/day		99 85%				
451	442.39	538.5	99.80%				
			99.80% 99.68% 99.53%				

	RISED MONITORI				MONTH: Novembe		
Unit	CBA production	S02 emission	Sulphur Recovery	11-Nov-2	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I		1
Unit.	MT/day	ppm	Efficiency	Unit	CBA production MT/day	SOZ emestos	Sulphur Recove Efficiency
451	429.04	467	99.82%	-61	430.62	821	99,77%
452	456.55	781	99.70%	452	498.70	942	99.65%
453	478.83	1088	99.58%	453	463.11	961	99.62%
	1364.41	AVG >>	99.70%		1392.43	AVG >>	99.68%
	_			7020000			- Vocale
Unit	CBA production	S02 emasion	Sulphur Recovery	Unit	CBA production	502 emision	Sulphur Recove
One	MT/day	ppm	Efficiency	Unic	MT/day	ppm ppm	Efficiency
451	426.81	459	99.83%	451	407.95	399	99.77%
452	463.77	775	99.71%	452	430.55	1342	99.47%
453	481.64	1095	99.58%	453	386.39	1025	99.56%
	1372.21	AVG >>	99.71%		1232.00	AVG >>	99.60%
03-Nov-2	3			13-Nov-2			
Unit	CBA production	S02 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	418.52	472	99.82%	451	389.05	535	99.79%
452	464.57	775	99.70%	452	390.92	682	99.71%
453	452.33	1173	99.54%	453	360.85	974	99.58%
	1335.42	AVG >>	99.69%		1166.83	AVG >>	99.69%
04-Nov-2	3			14-Nov-2	1		
Unit	CBA production	502 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recove
	MT/day	pprv	Efficiency		MT/play	pain	Efficiency
451	414.67	474	99.82%	451	384.66	445	99.82%
452	431,72	771	99.69%	452	398.59	679	99.71%
453	466.59 1313.07	1186	99.54%	453	372.57	962	99.57%
	1313.07	AVG >>	99.68%		115592	AVG >>	99.70%
05-Nov-2	3			15-Nov-2	1		-
Unit	CBA production	507 emilion	Sulphur Recovery	Unit	C8A production	502 emission	Sulphur Recove
	MT/day	ppm	Efficiency		MT/day	ppm	Bffcency
451	415.13	531	99.80%	451	395.95	485	99.81%
452	438.21	020	99.68%	452	399.A7	590	99.56%
453	481.34 1334.69	1251 AVG >>	99.53%	453	397,26	960	99.58%
	1234.03	NYM FF	39.07%		1192.66	AVG >>	99.65%
06-Nov-2	1						
Shit	CBA production	502 emission	Sulphur Recovery				
	MT/day	pper	Efficiency				
451	415.12	511	99.80%				
451	451,34 487,54	796 1239	99.69%				
7,04	1354.00	AVG >>	99.68%				
07-Nev-2							
Unit	CBA production	SC2 smission	Sulphur Recovery				
454	MT/day	pon	BTICketcy 99.50%				
451	419.36	523	99.50%				
453	467.57 482.62	799	99.57%				
	1369.64	AVC >>	99.69%				
08-Nev-2		402	T Production				
Unit	CSA production	SO2 emission	Sulphur Recovery Efficiency				
	9(T/day 431.16	ppm 617	99,77%				
451	744.49						
451	476 30	17.2	99.62%				
451 452 453	476.30 \$11.86	1110	99.67%				
453	476.30						
453 453	476.30 \$11.86 1419.32	1110	99.58%				
453 453 09-Nov-2	476.30 \$11.86 1419.32	1110 AVG >>	99.58%				
453 453	476.30 511.86 1419.32	AVG >>  S02 emission	99.58% 99.77% Sulphur Recovery				
453 453 09-New-2 Unit	476.30 511.86 2419.32 3 CBA production MT/day	SO2 emission	99.58% 99.77% Sulphur Recovery Efficiency				
453 453 09-Nov-2	476.30 511.86 1419.32 3 CBA production MT/day 643.39	SO2 emission ppm 785	99.22% 99.22% Sulphur Recovery Efficiency 99.71%				
453 453 09-Nev-2 Unit	476.30 511.86 5419.32 3 CBA production MT/day 443.39 519.43	502 emission ppm 785 1040	99.58% 99.77% Sulphur Recovery Efficiency				
453 453 09-Nov-2 Unit 451 452	476.30 511.86 1419.32 3 CBA production MT/day 643.39	SO2 emission ppm 785	99.58% 99.27% Sulphur Recovery Efficiency 99.71% 99.62%				
453 453 09-New-2 Unit 451 452 453	476,30 511.86 5419.32 3 CBA production MT/day 443.39 519.42 532.56 1495.38	502 emission 2007 785 1040 1251	99.58% 99.27% Sulphur Recovery Efficiency 99.71% 99.52% 99.51%				
453 453 09-New-2 Uest 451 452 453	476.30 511.86 5419.32 3 CBA production MT/day 643.39 519.42 532.56 1495.38	502 emission 2pm 785 1040 1251 M/G >>	99.58% 99.77% Sulphur Recovery Efficiency 59.71% 99.62% 99.51% 99.61%		*		
453 453 09-New-2 Unit 451 452 453	476.30 \$11.86 \$419.32 3 CBA production M7/day 443.39 519.42 519.42 519.43 519.43 519.43 519.43 519.43	502 emission ppm 785 1040 1251 M/G >>	99.58% 99.27% Sulphur Recovery Efficiency 99.71% 99.62% 99.61%				
453 453 09-Nov-2 Uvit 451 452 453 10-Nov-2 Unit	476.30 \$11.86 \$419.32 3 CBA production MT/day 663.39 519.42 532.56 1495.38 3 CBA production MT/day	502 emission ppm 785 1040 1251 M/G >> 502 emission ppm 785 1040 1251 M/G >> 502 emission ppm 9999 1040 1251 M/G >> 1040 M/G >	99.58% 99.77% Sulphur Recovery Efficiency 99.71% 99.52% 99.51% 99.51%				
453 453 09-New-2 Uest 451 452 453	476,30 511.86 5419.32 3 CBA production MT/day 443.39 519.42 532.56 1495.38 3 CBA production MT/day 432.54	502 emission ppm 785 1040 1251 AVG >> 502 emission ppm 785 2040 1251 AVG >> 502 emission ppm 723	99.58% 99.77% Sulphur Recovery Efficiency 99.71% 99.62% 99.61% Sulphur Recovery Efficiency 99.71%				
453 453 09-Nov-2 Ueit 451 452 453 10-Nov-2 Unit	476.30 \$11.86 \$419.32 3 CBA production MT/day 663.39 519.42 532.56 1495.38 3 CBA production MT/day	502 emission ppm 785 1040 1251 M/G >> 502 emission ppm 785 1040 1251 M/G >> 502 emission ppm 9999 1040 1251 M/G >> 1040 M/G >	99.58% 99.77% Sulphur Recovery Efficiency 99.71% 99.52% 99.51% 99.51%				

Unit				25-Nov-23			
	CBA production	SO2 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recover
	MT/day	ppm	Efficiency		MT/day	ррп	Efficiency
451	415.59	515	99.80%	451	552.61	867	99.70%
452	444.02	391	99.85%	452	552,53	902	99.67%
453	462.70	667	99.75%	453	557.33	1519	99.43%
100	1322.30	NVG >>	99.80%	-	1662,47	///G >>	99.60%
17-Nov-23				26-Nov-23	THE RESERVE AND PARTY OF THE PA		
Unit	CBA production	S02 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recove
	MT/day	ррт	Efficiency	1000	MT/day	ррт	Efficiency
451	415.37	- 671	99,74%	451	521.58	840	99.70%
452	464.28	444	99.83%	452	540.84	857	99.69%
453	479.82	1201	99.53%	453	525.50	1464	99.43%
-100	1359,47	AVG >>	99.71%		1587.92	AVG >>	99.61%
				Talles Pag	94		
IB-Nov-23				27-Nov-2	AND RESIDENCE OF THE PARTY OF T		-
Unit	CBA production	S02 emission	Sulphur Recovery	Unit	C8A production	502 amission	Sulphur Recove
	MT/day	рот	Efficiency		MT/day	ppm	Efficiency
451	422.17	715	99.73%	451	493.29	628	99.70%
452	481.67	701	99.74%	452	493.18	632	99.69%
453	460.16	1205	99.52%	453	502,13	1428	99.44%
	1364,00	AVG >>	99.67%		1488.59	AVG >>	99.61%
98170-35	7-127-11-11			TO STEEL ST			
9-Nov-23				28-Nov-2			
Unit	CBA production	SO2 erression	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recove
1787	MT/day	ppm	Efficiency	-	MT/day	ppm	Efficiency
451	421.78	756	99.71%	451	442,38	934	99.66%
452	479.79	736	99,72%	452	493.13	900	99.56%
453	445.66	802	99.68%	453	500,27	1552	99.41%
11000	1347.22	AVG >>	99.70%		1435.78	<< DVA	99.58%
D. New 22				20 Nov. 2			
Unit	CSA production	S02 emission	Sulphur Recovery	29-Nov-2	CBA production	502 emission	Solghur Recover
SHIL	MT/day	pom pom	Efficiency	, une	MT/day	pom pom	Efficiency
354	The second secon	- Annual Contract of the Contr	99.68%	451	The second secon		99.71%
451	421.54	846			485.76	822	The state of the s
452	480,18	804	99.70%	452	465,30	823	99.69%
453	469.23	1081	99.58%	453	512.10	1526	99.43%
	1370.96	AVG >>	99.65%		1464.17	AVG >>	99.61%
21-Nov-23				30-Nov-2	3		-
Unit	CBA production	SD2 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recove
	MT/day	ppe	Efficiency		MT/day	ррт	Efficiency
451	432,47	879	99.67%	451	493,57	734	99.74%
452	488,26	837	99.69%	452	370.47	745	99.69%
453	463.26	1281	99.50%	453	490.84	1514	99,42%
	1383.99	AVG >>	99.62%		1354.88	AVG >>	99.62%
22-Nov-23							
Unit	CBA production	S02 emission	Sulphur Recovery				
	MT/day	pam	Efficiency				
-	494.70	780	99.72%				
451			99.68%				
452	512.26	966					
		966 1407	99.46%				
452	512.26						
452 453	512.26 531.54	1407	99.46%				
452 453 23-Nov-23	512,26 531,54 -1536,50	1407 AVG >>	99.45% 99.62%				
452 453	\$12.26 531.54 -1536,50 CBA production	1407 AVG >> S02 emission	99.45% 99.62% Sulptur Recovery				
452 453 23-Nov-23 Uvit	512.26 531.54 1535.50 CBA production MT/day	1407 AVG >> SD2 emission pom	99.45% 99.62% Sulphur Recovery Efficiency				
452 453 23-Nov-23 Unit	512.26 531.54 1538.50 CBA production MT/day 547.69	1407 AVG >> S02 emission ppm 952	99.46% 99.62% Sulphur Recovery Efficiency 99.68%				
452 453 23-Nov-23 Unit 451 452	512.26 531.54 1538.50 C8A production MT/day 547.89 537.87	\$407 AVG >> \$02 errission pom 952 1001	99.46% 99.62% Sulphur Recovery Efficiency 99.68% 99.64%				
452 453 23-Nov-23 Unit	512.26 531.54 -1536,50 CBA production MT/day 547,69 537,67 563.20	\$407 AVG >> \$02 emission pom 952 1001 1597	99.46% 99.02% Sulphur Recovery Efficiency 99.68% 99.54%				
452 453 23-Nov-23 Unit 451 452	512.26 531.54 1538.50 C8A production MT/day 547.89 537.87	\$407 AVG >> \$02 errission pom 952 1001	99.46% 99.62% Sulphur Recovery Efficiency 99.68% 99.64%				
452 453 23-Nov-23 Unit 451 452 453	512.26 531.54 -1536,50 CBA production MT/day 547,69 537,67 563.20	\$407 AVG >> \$02 emission pom 952 1001 1597	99.46% 99.02% Sulphur Recovery Efficiency 99.68% 99.54%				
452 453 23-Nov-23 Unit 451 452 453 24-Nov-23	512.26 531.54 1538.50 CBA production MT/day 547.89 537.67 563.20 1648.96	\$407 AVG >> \$02 emission ppm 952 1001 1597 AVG >>	99.46% 99.62% Sulphur Recovery Efficiency 99.68% 99.54% 99.41% 99.57%				
452 453 23-Nov-23 Unit 451 452 453	512.26 531.54 1538.50 CBA production MT/day 547.89 537.87 563.20 1648.96	\$407 AVG >> \$02 emission ppm 952 1001 1597 AVG >> \$02 emission	99.46% 99.62% Sulphur Recovery Efficiency 99.68% 99.54% 99.51% 90.57%				
452 453 23-Nov-23 Unit 451 452 453 24-Nov-23 Unit	512.26 531.54 1536,50 CBA production MT/day 547,69 537,67 563.20 1648,36	\$407 AVG >> \$02 emission ppm 952 1001 1597 AVG >> \$02 emission ppm	99.46% 99.62%  Sulphur Recovery Efficiency 99.68% 99.64% 99.57%  Sulphur Recovery Efficiency				
452 453 23-Nov-23 Unit 451 452 453 24-Nov-23 Unit	512.26 531.54 1538.50 CBA production MT/cay 547.89 537.87 563.20 1648.36 CBA production MT/day 539.47	\$02 emission   502 to 1	99.46% 99.62% Sulptur Recovery Efficiency 99.68% 99.64% 99.41% 99.57% Sulptur Recovery Efficiency 99.70%				
452 453 23-Nev-23 Unit 451 452 453 24-Nev-23 Unit 451 451	512.26 531.54 1538.50 CBA production MT/day 547.69 537.67 533.20 1649.36 CBA production MT/day 539.47 557.16	\$407 AVG >> \$02 errestion poin 952 1001 1597 AVG >> \$02 errestion poin 887 923	99.46% 99.62% Sulptur Recovery Efficiency 99.64% 99.54% 99.41% 99.57% Sulptur Recovery Efficiency 99.70%				
452 453 223-Nev-23 Uvit 451 452 453 24-Nev-23 Uvit	512.26 531.54 1538.50 CBA production MT/cay 547.89 537.87 563.20 1648.36 CBA production MT/day 539.47	\$02 emission   502 to 1	99.46% 99.62% Sulptur Recovery Efficiency 99.68% 99.64% 99.41% 99.57% Sulptur Recovery Efficiency 99.70%				

01-Dec 22	ISED MONITORIN			11-Dec-23	and the second		
01-Dec-23	CSA production	SO2 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recove
(Art)	T100 T100 T100 T100 T100 T100 T100 T100		Efficiency	June 1	MT/day	ppro	Efficiency
451	MT/day 437,48	50m 766.3	99.72%	451	434.02	968.4	99,64%
			99.70%	452	572.08	903.4	99.68%
452	423,15	762.2 1166.7	99,59%	453	573.15	1161.6	99.58%
403	455.99 1316.62	AVG >>	99.67%		1579.25	AVG >>	99.63%
110.1001	A245/04	, may	33.01.19	00000000			- 8000
02-Dec-23		502 emission	Sulphur Recovery	12-Dec-23 Unit	CBA production	S02 emission	Sulphur Recove
Unit	CBA production MT/play	ppel	Efficiency -	Une	HT/day	ppm	Efficiency
451	418.41	838.3	99.69%	451	446.35	933.7	99.60%
452	460.89	832.0	99.65%	452	571.29	891.6	99.69%
453	487.11	1049.2	99.66%	453	564,74	1177.7	99.58%
	3374.40	AVG FF	19,69%		1502.38	AVG +>	99.64%
03-Dec-23				13-Dec-23	ll.		Commission of the Commission o
Unit.	CBA production	SO2 emesion	Sulphur Recovery	Unit	CBA production	SOZ emission	Sulphur Recover
57.07	MT/day	ppm.	Efficiency	- 2335 -	MT/day	ppm	Efficiency
451	414,99	713.1	99.73%	451	529,67	869.5	99.70%
452	494.11	7151	99,74%	452	552.64	850.8	99.70%
453	482.08	1027,3	99.68%	451	551,22	1140.1	99,58%
	1391.18	N/G>>	99,72%		1633.53	AVG >>	99.66%
04-Dec-23	15			14-Dec-23	Olympia and the second		-
Unit	CBA production	902 emission	Sulphur Recovery	Unit	CBA production	SOZ emission	Sulphur Recove
	MT/day	ppm	Bffidency		MT/day	gom	Efficiency
451	435.82	797.1	99.71%	451	507.17	1069.2	99,63%
452	519.15	813.3	99.71%	452	450.40	994.4	99.62%
453	549.93	1388.7	99.50%	453	546.56	1296/0	99.51%
	1504.91	AVG >>	99.64%		1514.13	AVG >>	99.59%
05-Dec-21				15-Dec-23			
Unit	CBA production	SD2 emission	Sulphur Recovery	Unit	CBA production	SO2 amission	Sulphur Recove
	HT/day	pom	Efficiency		HT/day	ppm	Efficiency
451	433.36	929.5	99.69%	451	577.A7	191.7	99.70%
452	533.72	934.4	99,70%	452	374,80	035.4	99.64%
453	1502.07	821.4 AVG >>	99.70%	453	522.41 1474.68	1147.5 AVG >>	99.56%
451 452 453	MT/day 436.31 535.41 536.60 1508.42	838.5 838.0 879.2 AVG >>	99.69% 99.70% 99.70% 99.68% 99.66%				
07-Dec-23		SO2 aminum	III Sulphur Receivery				
Unit	CBA production	502 emesion	Sulphur Receivery Efficiency				
Unit	CBA production MT/day	502 emission ppm 813.3					
	CBA production MY/day 502.08	ppm	Efficiency				
Unit: 451	CBA production MT/day	ppm 813.3	590,72%				
Unit: 451 452	CBA production MT/day 502.08 529.76	ppm 813.3 804.5	99.72% 99.71%				
451 452 453	CBA production MT/day 502.08 529.76 553.04 3594.87	ppm 813.3 804.5 906.2	99.72% 99.71% 99.60%				
Unit: 451 452	CBA production M7/day 502.08 529.76 553.04 2594.87	ppm 813.3 804.5 906.2	99,72% 99,71% 99,71% 99,60% 99,70%				
451 452 453 66-Dec-23	CBA production MT/day 592.08 529.76 553.04 1594.87	ppm 813.3 804.5 926.2 AvG >> \$02 emission ppm	Stiffcency 99,72% 99,71% 99,70% 99,70% Sulphur Recovery Stiffcency				
Usit: 451 452 453 08-Dec-23 Unit	CBA production MY/day 502,08 522,76 533,04 1594,97	907 813.3 804.5 906.2 AvG >> \$02 errisstor ppm 287.4	99.72% 99.72% 99.71% 99.69% 99.70% Sulphur Recovery Stroency 99.71%				
Unit: 451 452 453 08-Dec-23 Unit 451 452	CBA production MT/day 592,09 522,76 553,04 3594,87 CBA production MT/day 466,64 520,29	9070 813.3 804.5 906.2 AVG >> S02 err/solon porn 287.4 768.4	99,71% 99,71% 99,71% 99,60% 99,70% Sulphur Recovery Efficiency 99,71% 99,71%				
Usit: 451 452 453 08-Dec-23 Unit	CBA production MY/039 502.08 529.76 553.04 1594.87 CBA production MY/039 466.61 529.29 314.60	9070 813.3 804.5 906.2 AvG >> SO2 errisston port 747.4 766.4 944.8	500 cancy 99,72% 99,72% 99,70% 99,70% 99,70% Sulphur Xecovery 500 cancy 99,71% 99,72% 99,55%				
Unit: 451 452 453 08-Dec-23 Unit 451 452	CBA production MT/day 592,09 522,76 553,04 3594,87 CBA production MT/day 466,64 520,29	9070 813.3 804.5 906.2 AVG >> S02 err/solon porn 287.4 768.4	99,71% 99,71% 99,71% 99,60% 99,70% Sulphur Recovery Efficiency 99,71% 99,71%				
Unit: 451 452 453 08-Dec-23 Unit 451 452	CBA production MY/029 502,08 529,76 553,04 1594,87 CBA production MY/029 466,61 538,29 514,60 1599,50	9070 813.3 804.5 906.2 AVG >> S02 err/solor ppm 787.4 768.4 944.8 AVG >>	500 cancy 99.71% 99.71% 99.70% 99.70% Sulphur Accovery Stricency 99.71% 99.72% 99.65% 99.65%				
Unit 451 452 453 08-Dec-23 Unit 451 452 453	CBA production MT/casy 502.08 529.76 553.04 1594.87   CBA production MT/casy 466.61 529.29 534.60 1599.50	9070 913.33 904.5 906.2 AvG >> S02 errisotors port 787.4 768.4 944.8 AvG >>	99,72% 99,72% 99,72% 99,70% 99,70% Sulphur Recovery stroency 99,71% 99,72% 99,65% 99,65%				
Unit 451 452 453 C68-Dec-21 Unit 451 453 453 C69-Dec-2 Unit 451 Unit 451 Unit 451 Unit 453 669-Dec-2 Unit 451 Unit 453 669-Dec-2 Unit 451 Unit 453 669-Dec-2 Unit 455	CBA production MY/day 502,09 522,09 522,09 529,76 553,04 3594,87 CBA production MY/day 466,61 528,29 514,60 1999,50 CBA production MY/day	907 913.3 904.5 906.2 AVG >> S02 errisolori porn 287.4 768.4 944.8 AVG >> S02 errisolori porn 287.4 768.4 944.8 AVG >>	99,73% 99,71% 99,70% 99,70% 99,70% Sulphur Recovery 87,73% 99,73% 99,65% 99,65% 99,65%				
Unit 451 452 453 Unit 451 452 453 69-Dec 21 Unit 451 452 453	CBA production MT/cay 502,08 502,09 502,09 502,76 553,04 3594,87  CBA production MT/day 466,64 528,29 514,80 1559,50  CBA production MT/day 470,50	9070 813.3 804.5 906.2 AVG >> S02 errisolori porti 287.4 768.4 944.8 AVG >> S02 errisolori porti 287.4 768.4 944.8 AVG >>	99.71% 99.71% 99.71% 99.60% 99.70% Sulphur Xecovery Stricency 99.71% 99.72% 99.65% 99.65% 99.65%				
Unit 451 452 453 Unit 451 452 453 Unit 451 452 453 451 451 451 451 452 453 453 453 453 453 453 453 453 453 453	CBA production MT/casy 502.08 529.76 553.04 3594.87   CBA production MT/casy 466.61 538.29 314.60 1919.50   CBA production MT/casy 466.61 558.29 514.60 1919.50 551.45	907 913.3 904.5 906.2 AVG >> SO2 errisotor ppn 787.4 768.4 944.8 AVG >> SO2 errisotor ppn 287.4 944.8 AVG >> SO2 errisotor ppn 287.4 944.8 AVG >>	501/chency 99,72% 99,72% 99,70% 99,70% 99,70% Sulphur Recovery 501/cency 99,72% 99,52% 99,65% 99,65% 501/cency 99,65% 99,65%				
Unit 451 452 453 Unit 451 452 453 69-Dec 21 Unit 451 452 453	CBA production MY/day 502,09 522,09 522,09 522,76 553,04 1594,97 1594,97 1594,97 1594,97 1594,97 1599,50 1599,72	907 813.3 804.5 906.2 AVG >> SO2 errisolor 907 787.4 768.4 944.8 AVG >> SO2 errisolor 907 287.4 768.4 944.8 AVG >>	Efficiency 99,72% 99,71% 99,70% 99,70% Sulphur Recovery Efficiency 99,71% 99,72% 99,65% 99,65% 99,65% 99,65% 99,65% 99,65% 99,65% 99,65%				
Unit 451 452 453 Unit 451 452 453 Unit 451 452 453 451 451 451 451 452 453 453 453 453 453 453 453 453 453 453	CBA production MT/casy 502.08 529.76 553.04 3594.87   CBA production MT/casy 466.61 538.29 314.60 1919.50   CBA production MT/casy 466.61 558.29 514.60 1919.50 551.45	907 913.3 904.5 906.2 AVG >> SO2 errisotor ppn 787.4 768.4 944.8 AVG >> SO2 errisotor ppn 287.4 944.8 AVG >> SO2 errisotor ppn 287.4 944.8 AVG >>	501/chency 99,72% 99,72% 99,70% 99,70% 99,70% Sulphur Recovery 501/cency 99,72% 99,52% 99,65% 99,65% 501/cency 99,65% 99,65%				
Unit 451 452 453 Unit 451 452 453 453 453 453 453 453 453 453 453 453	CBA production MT/cay 502,09 502,09 502,09 502,09 502,09 503,04 3594,87 503,04 3594,87 503,04 3594,87 503,04 503,0	907 813.3 804.5 906.2 AVG >> SO2 errisolor 907 787.4 768.4 944.8 AVG >> SO2 errisolor 907 287.4 768.4 944.8 AVG >>	Efficiency 99,72% 99,71% 99,70% 99,70% Sulphur Recovery Efficiency 99,71% 99,72% 99,65% 99,65% 99,65% 99,65% 99,65% 99,65% 99,65% 99,65%				
Unit 451 452 453 Unit 451 452 453 Unit 451 452 453 451 451 451 451 452 453 453 453 453 453 453 453 453 453 453	CBA production MY/day 592,09 592,09 592,09 593,04 1594,87 553,04 1594,87 553,04 1594,87 599,59 5914,60 1999,59 59 5914,60 1999,59 5914,60 1999	907 813.3 804.5 906.2 AVG >> SO2 errisolor 907 787.4 768.4 944.8 AVG >> SO2 errisolor 907 287.4 768.4 944.8 AVG >>	99.71% 99.71% 99.71% 99.60% 99.70%  Sulptur Recovery Efficiency 99.71% 99.72% 99.65% 99.65% 99.65% 99.65% 99.65% 99.65% 99.65% 99.65%				
Unit 451 452 453 Unit 451 452 453 Unit 451 452 453 453 453 453 453 453 453 453 453 453	CBA production MY/day 502,09 522,09 522,09 553,04 3594,87 553,04 3594,87 553,04 559,52 526,29 514,60 1509,50 551,45 559,72 1531,95 3	9070 813.3 804.5 906.2 804.5 906.2 809.5 906.2 809.5 909.5 802 errisator port 287.4 944.8 AVG >> \$02 errisator port 265.9 817.7 1027.8 AVG >> \$02 errisator	### ##################################				
Unit 451 452 453 Unit 451 452 452 Unit 451 452 Unit 4	CBA production MT/casy 592,08 592,08 592,76 553,04 3594,87 553,04 3594,87 553,04 466,61 528,29 514,80 1579,50 551,46 559,72 1531,85 590,72 1521,85 590,72 1521,85 590,72 1521,85 590,72 1521,85 590,72 1521,85 590,72 15	507 mission ppm six 3 mission ppm six 3 mission ppm restaurant ppm	### ##################################				
Unit 451 452 453 Unit 451 452 453 453 453 453 453 453 10-0ec-2: Unit 451 452 453 453 453 453 453 453 453 453 453 453	CBA production MY/day 502,09 522,09 522,09 522,09 522,09 523,04 1594,97 1594,97 1594,97 1594,97 1594,97 1594,97 1595,09 50 1595,09 5	\$07.00 miles   \$00.00	501/chency 99,72% 99,72% 99,70% 99,70% 99,70% 501/chency 99,72% 99,55% 99,55% 99,55% 99,55% 99,55% 99,55% 99,55% 99,55% 99,71% 99,57%				
Unit 451 452 453 Unit 451 452 452 Unit 451 452 Unit 4	CBA production MT/casy 592,08 592,08 592,76 553,04 3594,87 553,04 3594,87 553,04 466,61 528,29 514,80 1579,50 551,46 559,72 1531,85 590,72 1521,85 590,72 1521,85 590,72 1521,85 590,72 1521,85 590,72 1521,85 590,72 15	507 mission ppm six 3 mission ppm six 3 mission ppm restaurant ppm	### ##################################				

14-Dec-23				25-Dec-23			
Unit	CBA production	502 emission	Sulphur Recovery	Unit	CBA production	SD2 emission	Sulphur Recovery
	MT/day	рат	Efficiency		MT/day	pper	Efficiency
451	547.13	781.9	99.74%	451	400,36	633.4	99.76%
452	419.37	735.7	99.70%	452	403,77	396.8	99.76%
453	528.38	1030.9	99.61%	453	390.21	941.1	99,59%
	1494.88	AVG >>	99.68%		1194.34	AVG >>	99.70%
	18.70.1100	1.00					-
7-Dec-23				26-Dec-23			
Unit	CBA production	S02 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recover
.0000	MT/day	ppm	Efficiency	4125	MT/day	ppm	Efficiency
451	571.55	799.E	99.74%	451	400.57	670.5	99.75%
452	427.31	763.4	99.70%	452	351.33	605.9	99.74%
453	566.76	1054.0	99.61%	453	391.82	959.2	99.59%
794	1565.62	AVG >>	99,68%		1153,72	AVG >>	99.69%
				- 1995 W.	1 22 0000		
B-Dec-23				27-Dec-23			
Unit	CBA production	502 emesion	Sulphur Recovery	Unit	CBA production	902 emission	Sulphur Recover
	HT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	529.67	851.8	99.71%	451	450.32	455.7	99.83%
452	529.52	801.2	99.71%	452	279.71	1126.5	99.53%
453	528.90	1095.1	99.58%	453	455.74	767.6	99.69%
	1588,09	AVG >>	99.67%		1185.77	AVG >>	99.68%
9-Dec-23				28-Dec-23			
Unit	CBA production	S02 emission	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Recover
47120	MT/day	ppm	Efficiency	9397	MT/day	ррті	Efficiency
451	504.55	788.9	99.72%	451	573,27	625.2	99,73%
452	507.73	760.0	99.72%	452	SD	SD	50
453	500.09	1042.0	99.59%	453	563.27	897.6	99.68%
-30	1512.38	AVG >>	99.68%		1136.53	AVG >>	99.71%
			100000000000000000000000000000000000000	Tax tax tax tax			
00-Dec-23			7650	29-Dec-23	Source - 1111 - 17	100000000000000000000000000000000000000	The second
tinit	CBA production	502 amission	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Recover
	MT/day	ppm.	Efficiency		MT/day	pom	Efficiency
451	503.12	732.0	99.74%	451	550.25	460.7	99.75%
452	494.36	708,4	99.74%	452	SD	SD	SD
453	510.67	987.1	99.62%	453	545.53	769.6	99.63%
1900	1508.16	AVS >>	99.70%	-	1091.05	AVG >>	99.69%
	1000.40	PROFESSION AND ADDRESS OF THE PROPERTY OF THE	2000				
21-Dec-23				30-Dec-23			
Unit	CBA production	502 emason	Supriur Recovery	Unit	LBA production	DUZ WITHOUT	Sulphur Recover
(A)	HT/day	spm	Efficiency		MT/day	ppm	Efficiency
451	519.04	687,4	99.76%	451	585.80	632.1	99,72%
452		686.3	99.71%	452	SO	ŠD	\$0
	388.37		99.63%	453	557.81	765.8	99.63%
453	530.29	984.8 AVG >>	99.70%	433	1143.61	AVG >>	99.67%
_	1437.69	MID >>	99,70%		1142.01	Wild >>	5500.0
22-Dec-23				31-Dec-23			
Unit	CBA production	902 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recover
- MARK	MT/day	ppm	Efficiency		HT/day	ppm	Efficiency
451		716.2	99.75%	451	479.77	519.0	99.80%
	508.50 431.37		99.73%	452	2000	597.4	99.76%
452		687.5	99.59%	453	389.58 458.95	476.4	99.80%
453	484.73 1424.60	1024,3 AVG >>	99.69%	400	1328.30	AVG >>	99.87%
_	4747.00	AND SS	31.03.0		100000		
23-Dec-23							
Unit	CBA production	S02 emission	Sulphur Recovery				
MILE	MT/day	pom	Efficiency				
ACT			99.74%				
451	477.29	706.3					
452	429.92	688.7	99.73%				
453	486.08	1010.9	99.60%				
_	1393.79	AVG >>	99.69%				
24-Dec-23							
Unit	CBA production	SOZ emission	Sulphur Recovery				
nec	THE RESERVE OF THE PARTY OF THE		Efficiency				
477	MT/day	pper	99.75%				
451	463.85	701.4	The state of the s				
155	430.15	660.6	99.74%				
452	64E 55	1014.8	99.59%				
452 453	445.27		AR 444				
	1339.27	AVG >>	99.69%				
			99.69%				

				11-3so-24			
1-3an-24 Unit	CBA production	SOZ emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recovery
115	HT/day	port	Efficiency		MT/day	ppm	Efficiency
451	460.99	65).4	99.75%	451	512.18	930.9	99.69%
452	433.06	631.7	99.75%	452	438.81	1028-8	99.61%
453	472,34	518.5	99.75%	453	506.50	919.8	99.65%
175.11	1366.39	AVG >>	99.75%		1457,49	AVG >>	99.65%
18155	A PARTY OF		and the second	12222			
2-Jan-24		S02 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recovery
Unit	CBA production MT/day	ppm	8Molency .	0.00	MT/dey	ppm	Efficiency
45L	502,53	960.6	99.66%	451	515.27	949.8	99.66%
452	422.65	938.2	99.65%	452	426.80	1057.1	99.59%
453	497.48	918.2	99.64%	453	514.61	925.9	99.65%
	1422.56	AVG >>	00.65%	- 777	1468.68	400 66	4903.49
2 300 3				13-Jan-24	i		
3-Jan-24 Unit	CBA production	502 erresion	Suiphur Recovery	Sint	CBA production	502 emission	Sulphur Recovery
	MT/day	ррт	Efficiency	1500	MT/day	ppm	Bfficiency
451	460.92	1020.4	99.62%	451	560.71	1009.7	99.67%
452	430.53	995.2	99.61%	452	\$14,17	1132.0	99.58%
453	441.50	971.1	99.60%	453	537,05	1012.6	99.63%
	1332,95	AVG >>	99.61%		1611.93	AVG >>	99.63%
4.310.7				14-Jan-2			The second second
4-Jan-24 Unit	CBA production	502 emission	Sulphur Recovery	Unit	CSA production	502 emission	Sulphur Necovery
4000	MT/dey	ppm	Efficiency		MT/day	ppm	Ethdency
451	434.59	1225.6	99.54%	451	558,25	015.3	99.73%
452	428.58	1254.9	V9.50%	452	526.84	957.7	99.65%
453	431.22	1140.3	99.52%	453	510.15	825,1	99.69%
	1294.40	AVG >>	99.52%		1595,24	AVG >>	59.69%
5-Jan-24				15-Jan-2			Charmer
Unit	CBA production	502 enlesion	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Recovery
TESTS	MT/day	ppm	Efficiency		MT/day	ppm	Efficiency
451	454,23	843.1	99.69%	451	548.63	836.6	99.72%
452	430,32	795.4	99.68%	457	512.87	975.1	99.64%
453	474,02 1358.57	785/2 AVG >>	99.69%	453	492,40 1553,86	833.2 AVG >>	99.68%
451 452 453	482.12 433.99 489.17 1405.28	950.2 794,2 895,2	99.65% 99.65%				
7-Jan-2 Unit 451	CBA production MT/day	AVG >> 502 emission ppm 933.1	Sulphur Recovery Efficiency 99.69%				
451 452	CBA production	502 emission ppm 933.1 1028.2	Sulphur Recovery Efficiency 59.69% 59.61%				
Unit 451	CBA production MT/day 533.98 438.62 507.94	502 emission ppm 933.1 1029.2 995.1	Suphur Recovery Efficiency 99.69% 99.61% 99.66%				
451 452	CBA production MT/day 533.98 438.62	502 emission ppm 933.1 1028.2	Sulphur Recovery Efficiency 59.69% 59.61%				
451 452	CBA production MT/day 533.98 438.62 507.94 1480.54	502 emission ppm 923.1 1028.2 925.1 AVG >>	Supriur Recovery 811ciency 99.69% 99.61% 99.65%				
451 452 453	CBA production MT/day 533.98 538.62 507.94 1482,54	502 emission ppm 933.1 1028.2 895.1 AVG >>	Sulphur Recovery Efficiency 99.69% 99.65% 99.65% 99.65%				
451 452 453 453 We-Jan-2 Unit	CBA production MT/day 533.98 438.62 507.94 1480.54 4 CBA production MT/day	502 emission port 933.1 1038.2 895.1 AuG >>> 502 emission port	Sulphur Recovery Efficiency 99.69% 99.69% 99.65% 99.65% Sulphur Recovery Efficiency				
451 452 453 453 453 Unit	CBA production MT/day 533.98 438.62 507.94 1490.54 4 CBA production MT/day 532.33	502 emission port 933.1 1025.2 995.1 Av.G >> 502 emission port 1279.1	Sulphur Recovery Efficiency 99.69% 99.65% 99.66% 99.65% Sulphur Recovery Efficiency 99.57%				
451 452 453 453 453 453 451 451 452	CBA production Mf/day 532,98 438,62 507,94 1492,54 4 CBA production Mf/day 512,33 435,03	502 emission ppm 933.1 1028.2 895.1 AvG >> 502 emission ppm 1279.1 1305.8	Sulphur Recovery Efficiency 59.69% 99.61% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.51%				
451 452 453 453 453 Unit	CBA production MT/day 533.98 538.62 507.94 1482,54 4 CBA production MT/day 532.33 435.93 450.33	502 emission ppm 933.1 1028-2 895.1 AVG >> 502 emission ppm 1279.1 1305.8 1184.4	Sulphur Recovery Efficiency 99.69% 99.65% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.51% 99.51%				
451 452 453 453 453 453 451 451 452 453	CBA production Mf/day 532,98 418,62 507,94 1490,54 4 CBA production Mf/day 532,33 435,03 450,33 1397,68	502 emission ppm 933.1 1028.2 895.1 AvG >> 502 emission ppm 1279.1 1305.8	Sulphur Recovery Efficiency 59.69% 99.61% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.51%				
451 452 453 453 453 453 451 451 452 453	CBA production Mf/day 532,98 418,62 507,94 1480,54 4 CBA production Mf/day 512,33 435,03 450,33 1397,68	502 emission ppm 933.1 1028-2 895.1 AVG >> 502 emission ppm 1279.1 1305.8 1184.4 AVG >>	Sulphur Recovery Efficiency 99.69% 99.65% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.51% 99.51%				
451 452 453 453 453 453 451 451 452 453	CBA production MT/day 533.98 538.62 507.94 1482,55 4 CBA production MT/day 532.33 450.33 1397.68	502 emission ppm 53.1 1025.2 925.1 AvG >> 502 emission ppm 1275.1 1305.8 1124.4 AvG >>	Sulphur Recovery Efficiency 99.69% 99.65% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.51% 99.51%				
451 452 453 453 08-3an-2 Unit 451 452 453 09-3an-2 Unit	CBA production MT/day 533,98 418,62 507,94 1490,54 4 CBA production MT/day 512,33 450,33 1397,68	502 emission port 933.1 1028.2 895.1 AviG >> 502 emission port 1279.1 1305.8 1184.4 AviG >> 502 emission port	Sulphur Recovery Efficiency 99.69% 99.69% 99.66% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.51% 99.53% 99.53%				
451 452 453 453 453 453 451 451 451 451 451 451	CBA production MT/day 532,98 418,62 507,94 3490,54 4 CBA production MT/day 512,33 435,03 450,33 1390,68	502 emission ppm 53.1 1025.2 925.1 AvG >> 502 emission ppm 1275.1 1305.8 1124.4 AvG >>	Sulphur Recovery Efficiency 99.69% 99.69% 99.65% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.51% 99.52% 99.53%				
451 452 453 453 08-3an-2 Unit 451 452 453 09-3an-2 Unit	CBA production MT/day 533,98 418,62 507,94 1490,54 4 CBA production MT/day 512,33 450,33 1397,68	502 emission ppm 933.1 1028.2 895.1 AVG >> 502 emission ppm 1279.1 1305.8 1184.6 AVG >>	Sulphur Recovery Efficiency 99.69% 99.61% 99.66% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%				
451 453 453 453 453 453 451 451 452 453 99-3an-2 Unit	CBA production MT/day 532,98 418,62 507,94 1480,54 4 CBA production MT/day 450,33 1397,68 4 CBA production MT/day 482,89 442,32	502 emission ppm 933.1 1028-2 895.1 AVG >> 502 emission ppm 1279.1 1305.8 1354.4 AVG >> 502 emission ppm 1279.1 140.5 1106.5 1140.7	Sulphur Recovery 811/clency 99.69% 99.69% 99.65% 99.65% Sulphur Recovery 811/clency 99.51% 99.51% 99.51% 99.53% 99.53% 99.53%				
451 452 453 453 453 451 452 453 451 451 451 452 453	CBA production MT/day 532,98 418.62 507.94 1490,54 4 CBA production MT/day 5312.33 435.03 450.33 1290.68 4 CBA production MT/day 489.80 442.32 421.46 1353.58	502 emission ppm 533.1 1028.2 895.1 AviG >> 502 emission ppm 1279.1 1305.8 1324.4 AviG >> 502 emission ppm 1279.1 1305.8 1184.6 1184.7 1005.5 1140.7 1023.6	Sulphur Recovery Efficiency 99.69% 99.61% 99.66% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%				
451 452 453 453 453 453 451 452 453 453 453 453 453	CBA production Mf/day 533.98 438.62 537.94 1480.54 4 CBA production Mf/day 512.33 435.03 450.33 1397.68 4 CBA production Mf/day 489.90 442.32 421.46 1353.58	502 emission ppm 53.1 1028-2 995-1 AVG >> 502 emission ppm 1278-1 1305-8 1134-4 AVG >> 502 emission ppm 108-5 1140-7 1023-6 AVG >>	Sulphur Recovery 811-cency 99.69% 99.69% 99.65% 99.65% Sulphur Recovery Efficiency 99.51% 99.51% 99.51% 99.51% 99.51% 99.51% 99.51% 99.51% 99.51%				
451 452 453 453 453 451 452 453 451 451 451 452 453	CBA production MT/day 533,98 418.62 507.94 1499,54 4 CBA production MT/day 532.33 450.33 1397.68 4 CBA production MT/day 489.80 442.32 421.46 1353.58	502 emission ppm 533.1 1028.2 895.1 AviG >> 502 emission ppm 1279.1 1305.8 1184.4 AviG >> 502 emission ppm 1106.5 1140.7 1023.6 AviG >>	Sulphur Recovery Efficiency 99.69% 99.61% 99.66% 99.65% 99.65% Sulphur Recovery Efficiency 99.57% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53% 99.53%				
451 452 453 453 453 453 451 452 453 453 453 453 453	CBA production MT/day 532,98 438,62 527,94 1490,54 4 CBA production MT/day 532,33 435,03 450,33 1390,68 4 CBA production MT/day 489,80 442,32 421,46 1353,53	502 emission ppm 53.1 1028-2 995-1 AVG >> 502 emission ppm 1278-1 1305-8 1134-4 AVG >> 502 emission ppm 108-5 1140-7 1023-6 AVG >>	Sulphur Recovery 811/24   99.631%   99.631%   99.651%   99.65%   99.65%   99.65%   99.55%   99.53%   99.53%   99.53%   99.53%   99.53%   99.53%   99.57%   99.57%   99.57%   99.57%   99.57%   99.59%   Sulphur Recovery 8				
451 452 453 453 453 451 452 453 451 452 453 451 452 453 453 453 453	CBA production MT/day 533,98 418.62 507.94 1499,54 4 CBA production MT/day 532.33 450.33 1397.68 4 CBA production MT/day 489.80 442.32 421.46 1353.58	502 emission ppm 933.1 1028.2 895.1 895.1 895.1 895.1 1279.1 1305.8 1184.6 AVG >>  502 emission ppm 1279.1 1305.8 1184.6 AVG >>  502 emission ppm 108.5 1140.7 1023.6 AVG >>  502 emission ppm	Sulphur Recovery 8thciency 99.69% 99.69% 99.66% 99.65% Sulphur Recovery 8thciency 99.51% 99.51% 99.53% 99.53% 99.53% 99.57% 99.57% 99.57% 99.57% 99.57%				
451 452 453 453 453 453 451 451 451 451 451 451 451 451	CBA production MT/day 532,98 418.62 507.94 1490,54 4 CBA production MT/day 512.33 435.03 450.33 1290.68 4 CBA production MT/day 469.80 442.32 421.46 1353.58 4 CBA production MT/day 507.06	502 emission ppm 933.1 1028.2 895.1 80/G >> 502 emission ppm 1279.1 1305.8 1324.4 AVG >> 502 emission ppm 1708.5 1140.7 1023.6 AVG >> 502 emission ppm 1708.5 140.7 1023.6 AVG >>	Sulphur Recovery Efficiency 99.63% 99.61% 99.61% 99.65% 99.65% 99.65% 99.55% 99.53% 99.53% 99.53% 99.55%				
451 452 453 453 453 451 451 451 451 453 453 453 453 453 453 453 453	CBA production Mf/day 533.98 438.62 537.94 1490.54 4 CBA production Mf/day 512.33 435.03 450.33 1397.68 4 CBA production Mf/day 482.80 442.32 421.46 1353.58	502 emission ppm 53.1 1028-2 995-1 AVG >> 502 emission ppm 1278-1 1305-8 1134-4 AVG >> 502 emission ppm 108-5 1140-7 1023-6 AVG >> 502 emission ppm 108-5 1140-7 1023-6 AVG >>	Sulphur Recovery 8thciency 99.69% 99.69% 99.66% 99.65% Sulphur Recovery 8thciency 99.51% 99.51% 99.53% 99.53% 99.53% 99.57% 99.57% 99.57% 99.57% 99.57%				

6-Jan-24	Sugar Arts		-0.00/20/20/20/20/20/20	25-Jan-24			
Unit	CBA production	-502 emission	Sulphur Recovery	Unit	CBA production	502 emission	Sulphur Recovery
1,7377.1	MT/day	gpm	Efficiency	11,441	MT/day	ppm	Efficiency
451	531,77	1178.8	99.60%	451	544.18	1094.8	99.63%
452			99.53%	452	533.17	1188.9	99.57%
	489.62	1259.5		453			99.60%
453	465.70	1133,8	99.55%	193	525.62	1046.3	99,40%
	1487.10	AVG>>	99.56%		1602.98	AVG>>	39/0079
				25 300 24			
7-Jan-24	Tens and also like	PAT american	Sulphur Recovery	26-Jan-24	CBA production	S02 emission	Sulphur Recovery
Unit	CBA production	SOZ emission	Efficiency	Unit			Efficiency
	MT/day	ppm	The second secon		MT/day	pom	99.70%
451	493,47	763.4	99.74%	451	528.22	885,1	The second secon
452	454,79	873.3	99.66%	452	510.41	986.3	99.63%
453	423.30	759.2	99.68%	453	495.90	851.1	99.66%
	1373.55	AVG >>	99.09%		1534.53	AVG >>	99.66%
8-Jan-24	Take the same the	202	Francis Reserves	27-Jan-24		CO3 amirrina	Sulphur Recovery
Unit	CBA production	502 erression	Sulphur Recovery	Unit	CBA production	S02 emission	Efficiency
-	MT/day	pom	Efficiency		HT/day	ppm	
451	450.45	788.5	99.72%	451	488.55	883.7	99.69%
452	440.15	918.6	99.63%	452	464.25	562.1	99.62%
453	427.79	803.5	99.66%	453	437.81	830,8	99.65%
	1328.39	AVG >>	99.67%	0/09	1390.60	AVG >>	99.65%
			-				
9-Jan-24				28-Jan-2/			
Unit	CBA production	SOZ emission	Sulphur Recovery	Unit	CBA production	SOZ emission	Sulphur Recover
1	MT/day	port	Efficiency		HT/day	ррт	Efficiency
451	474.93	795.0	99.72%	451	415.62	799.7	99.70%
452	454.77	966.9	99.62%	452	389.52	867.4	99.64%
453	453.29	847.2	99.66%	453	368.27	730.6	99.66%
433	1382.98	AVG >>	99.66%	- 366	1173.40	AVG >>	99.67%
	1366,70	Part Fe	2310010				
0-Jan-24				29-2an-2	1		
Unit	CBA production	S02 amission	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Recover
	MT/day	gpm	Efficiency	3888	MT/day	ppm	Efficiency
451	422.83	800.2	99.71%	451	389.01	699.0	99.74%
			99.64%	452	177.54	776.6	99.68%
452	406.05	578,4	The second secon				99.71%
453	381.87	749,0	99.67%	453	380.63	650.2 AVG >>	99.71%
	1210.75	AVG >>	99,68%		114199	AND PP	2211438
1-Jan-24				30-366-2			
ASSESSMENT OF THE PARTY NAMED IN	CBA production	SOZ emission	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Rectives
Unit			Efficiency		MT/day	ppm	Efficiency
AFA:	MT/day	ppm	The second section is not been a second second	451	409.18	635.0	99.77%
451	388,66	517.2	99.81%	452			99.71%
452	363,75	593.5	99.75%		393.01	728.0	99.73%
453	385.76	478.7	99.79%	453	420,77	621.9	
- 1111	1139,17	AVG >>	99.78%		1222.96	A)/G>>	99.74%
				31-Jan-2			
2-Jan-24	C5A production	502 emission	Sulphur Recovery	Unit	CBA production	-902 emission	Sulphur Recover
Unit :	1 Lance Control Control Control		Efficiency	Ues.	MT/day	DOM:	Efficiency
181	MT/Say	ррт		487			99.75%
451	428.78	553.3	99.80%	451	499.32	729.9	
452	607.10	645.4	99.74%	452	434.25	827.7	99.67%
453	435.71	520.7	99.79%	453	497.88	738.8	99.72%
10000	1271.58	AVG >>	99.78%		1431,44	AWG >>	99.71%
2. Sec. 24							
3-Jan-24	CBA production	502 emission	Sulphur Recovery				
Unit	MT/say	por enterior	Efficiency				
451	494.96	815.6	99.72%				
			99.64%				
452	436.57	927.7					
453	502.08	780.6	99.71%				
	1433.61	AVG >>	99.69%				
4-Jan-24							
	CBA production	S02 emission	Sulphur Recovery				
Unit	A Control of the Control		Efficiency				
-	MT/day	pom	The second secon				
451	525.34	856.9	99.71%				
452	451.19	993.8	99.62%				
	514.09	836.4	99.68%				
453							
453	1490.62	AVG >>	99.67%				

MPUTER	SED MONITORING	OF SUZ EMISSIO	N FROM SRUS	MC	NTH:February '20	124	
01-Feb-24				11-Feb-24			
Uelt	CBA production	SO2 entesten	Suighur Recovery Efficiency	UNE	CBA graduction MT/day	SOZ erresten	Sulphur Recovery Bfficiency
465	MT/day	915.Z	99,72%	451	465.26	ppm; 552.7	99.81%
453	540.24 482.53	951.4	99.65%	452	433.96	788.7	99.69%
453	522.44	851.R	99.68%	453	470.14	884.7	99.66%
700	1545.2	AVG>>	99.68%		- 1209.A	AVG >>	99.72%
West reserved	A7			di esperance.			
02-Peb-24		502 emission	Sulphur Recovery	12-Feb-24	CBA production	502 entasar	Sulphur Recovery
rivit	CSA production HT/day	997	Efficiency	- Unit	MT/day	ppm	Efficiency
451	544.96	1005.2	99.56%	451	515,11	616.2	99,79%
452	534.40	1100.1	99.61%	452	431.00	887.6	93.65%
453	527.74	1036.3 AVG >>	99.50%	453	517,53 1664	977,0 AVG >>	99,63%
	1807.5	300,22	99.00.76		1000	700	News II
03-Feb-24				13-Feb-24			
Dvt	CBA production	S02 amaskin	Sulphur Recovery	Unit	CBA production	502 emiliatory	Sulphur Recovery
	HT/day	gpm-	Stidency	-	MT/day	9971	Efficiency
451	515.47	936.5	99.67%	451	521.04 459.43	581.7 850.3	99.60%
452 453	468.04 451.88	863.4 917.0	99.70%	453	459.43 586.61	962.1	99.64%
433	3435.4	AVG >>	99.66%	100	1407.0	AVG >>	99,70%
	2001						
04-Feb-24				14-Feb-24		PRO ACCOUNT	Colob - Reserve
THE	CBA graduction	502 emission	Suighur Recevery Efficiency	Unit	CBA production HT/day	502 emision	Sulphur Recovery Efficiency
451	MT/day 468.31	974.5	99.65%	451	509.50	589.7	99.79%
452	432.76	768.7	99.74%	452	485.27	827.5	99,66%
453	442.98	928.3	99.60%	453	472.01	965.0	99.62%
	DATE	AVG >>	99.60%		1496.8	NY3	\$9.70%
05-Feb-24				15-Peb-24			
Unit	CBA production	S02 emission	Sulphur Recovery	Unit	CBA production	SOZ emission	Sulphur Recaver
775	MT/day	ppm.	Efficiency	3/83	MT/day	apro	Efficiency
453	444.52	822.5	99.70%	451	535.99	758.0	99,74%
452	429,81	438.1	99.82%	452 453	516.16 505.50	969,3 1110.1	99,63%
453	433.20 1907.5	797,3 AVG >>	99.65%	453	1558.6	AVG >>	99.65%
55 10 57 75	18112	1119	-				all the same
05-Feb-24							
Unit	CBA production	S02 emission	Sulphur Recovery				
480	MT/day	pom 397,6	Efficiency 99.67%				
453	475.22 424.03	884.0	99.55%				
453	405.47	856.1	99.62%				
-270	3254.7	AVG >>	99,65%				
	120						
07-Feb-24 Linit	CBA production	503 enitson	Sulphur Recovery				
une.	HT/day	(1371	Bfloency				
451	431.56	817.0	95.71%				
452	429.17	800.8	99.69%				
453	408.95	754.4	99.66%				
_	1368.7	AVG >>	99.68%				
08-Feb-24							
Unit	CBA production	502 emission	Sulphur Recevery				
	HT/day	2211	Efficiency				
451	424.72	836.3 810.0	99.70%				
452 453	421.58 363.67	805.8	99.64%				
190	1236.0	AVG >>	99,67%				
and the same of							
09-Feb-24	CBA production	SG2 emission	Sulphur Recevery				
UNE	MT/day	SAME STREET	Efficiency				
451	421.26	666.3	99,76%				
452	411.21	533.8	99,75%				
453	408.32	659.0	99,72%				
	1340.8	AVS >>	89.74%				
10-feb-24							
Unit	CBA areduction	SOZ emission	Solphur Recevery				
	MT/day	gpm	Efficiency				
451	444.04	595.6	99.80%				
452	428.59	751.9 812.1	99.67%				
453	433.58 1307.0	817.1 AVG >>	99.72%				
	APPLIES .	ALM P					

September 1				Table 1979			
-Feb-24	791	500 45 100	Sulphur Recovery	25-Feb-24 Unit	CBA production	S02 emission	Solphur Recovery
Unit	CBA production	SOZ emission	Efficiency	Unit	MT/day	ppm	Efficiency
464	MT/day	ppm	99.73%	451	602.64	745.5	99,74%
451	597.13	770,0	99.64%	457	527.24	1029.8	99,60%
452	574.39	1124.5	99.57%	453	364.48	818.0	99.68%
453	556.61 1728.1	AVG >>	99.65%	192	1694.4	AVG >>	99.57%
	5720-3	10072	10000			mag co	1 200.0
-Feb-24				26-Feb-24			
Unit	CBA production	SOZ emission	Sulphur Recovery Efficiency	Unit	CBA production HT/gay	SOZ emission pom	Sulphur Rocovery Efficiency
451	MT/day 599.35	966.B	99.69%	451	603.06	690.9	99.75%
452	577.65	1079.8	99,60%	452	557.82	989.6	99.63%
453	359.05	1224.4	99,53%	453	551.58	771.3	99.70%
433	1796.0	AVG >>	99.61%		1712.5	AVG >>	\$9,69%
and the				22.012.03			
-Feb-24	751 cod attac	90Z emission	Sulphur Recovery	27-Feb-24 Unit	CBA production	SO2 emission	Suiphur Recovery
Unit	CBA production MT/day	SUZ BITISSEET	Efficiency	mer	MT/day	pom .	Efficiency
451	591.30	819.9	99.71%	451	583.24	722.6	99,74%
452	564.52	1016.9	99.62%	452	549.11	1006.7	99.62%
453	538.49	1164.5	99.55%	453	532.09	781.5	99.69%
	3694.9	AVG >>	99.63%		3664,4	AVG >>	99.68%
Mary and				200			
Unit	CBA production	S02 emission	Sulphur Recovery	28-Feb-24 Unit	CBA production	S02 emission	Suigher Recovery
See.	MT/day	2000	Efficiency	ant.	MT/day	nom	Efficiency
451	573.17	889.9	99,00%	451	532.65	570.1	99.90%
452	556.85	1072.1	99.60%	452	497.93	856.9	99.66%
453	542.69	964.7	99.62%	453	494.75	644.8	99.74%
	1872.7	AVG >>	99.64%		2525.3	AVG >>	99.73%
OBSTANCE.				112220	Yr		
-Feb-24	CBA sent etter	S02 emission	Sulphur Recovery	29-Feb-24 Unit	CBA production	502 emission	Sulphur Recovery
Unit	CBA production MT/day	SUZ emission ppm	Efficiency	OHE	MT/day	abin.	Efficiency
451	584.53	839.2	99,70%	451	493.67	485.7	93,82%
452	557.98	1040-2	99,61%	452	474.31	769.5	99.59%
453	532.43	895.0	99.65%	453	457.89	578.8	99.76%
120	1674.5	AVS >>	99.66%		145.9	AVG >>	99.76%
Some Division							
-Feb-24	794 cont. co. 1	600	Sulphur Recovery				
Unit	CBA production	S02 emission	Sulphur Recovery Efficiency				
454	HT/day	ppm 6/98.9	99.76%				
451	586.86		99.76%				
452	566.56	917.1					
453	546.04 1699.5	752.0 AVG >>	99.71%				
	16953	A10.22	79.7479				
-Feb-24							
Unit	CBA production	502 emission	Sulphur Recovery Efficiency				
181	HT/day	ppm	The second second second				
451	591.80	696.7	99.75%				
452	568.78	925.4	99.56%				
453	547.87 178.4	764.1 AVG >>	99.71%				
	Day	A10.22	79.1478				
-Feb-24							
Unit	CBA production	SIDZ emission	Sulphur Recovery				
	HT/day	ppm	Efficiency				
451	598.29	765.9	99.73%				
452	562.10	1008.3	99.62%				
453	568.48	827.2	99.69%		335		
_	1726.9	AVG >>	99.68%				
-Feb-24							
Unit	C6A production	SO2 emission	Sulphur Recovery				
Section.	MT/day	ppm	Efficiency				
and.		728.5	99.74%				
451	600.58						
CENTED !	525.39	992.7	99.62%				
451							

01-Mar-2				11-Mar-24			
Unit	CRA production	SUZ emitalon	Sulphur Recovery Efficiency	Unit	CBA production	S02 emission	Sulphur Recove
451	MT/day	pan	99,79%	451	HT/day	ppm	99.81%
452	481.15 467.30	551 797	99.55%	452	470.03 459.26	533	99.72%
453	466.13	609	99,75%	453	452.67	851	99.74%
-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	343438	AVG >>	99,74%		CHEE	AVG>>	99.76%
02-Mar-2				12-Har-24			-
Chit	CBA production	S02 emission	Sulphur Recovery	Unit	CBA production	\$02 emission	Sulphur Recove
2000	MT/stary	2271	Efficiency	100000	HT/day	ppm	Efficiency
451	492.21	563	99.79%	451	467.45	444	99.84%
452	474.03	791	99.68%	452	463.27	(6)	99,74%
452	467.98 36632	AVG >>	99:77%	453	451.10	598 AVG >>	99.76%
0.00	1 2000	marr.	70.744	100000000	-575-51	- Mary	2007070
03-Mar-2				13-Mar-24			
Unit	CBA production MT/day	S02 emission	Sulphur Recovery Efficiency	Unit	CBA production MT/day	S02 errasion	Sulptur Recove Efficiency
451	481.65	628	99,77%	451	465.46	ppm 463	99.84%
452	475.23	832	99.65%	452	460.85	678	99.73%
453	482.49	617	99.78%	453	457.26	630	99.75%
-1551	SHIRAL	AVG >>	99.73%		16030	AVG ××	99,77%
04-Mar-2	4			14-Mar-24			100000
Unit	CBA production	S02 entiseon.	Sulphur Recovery	UNIX	CBA production	SOZ emigues	Sulptur Recove
25501	HT/day	porn	Efficiency	1000	MT/day	ppm	Efficiency
450	315.37	718	99.74%	451	478.20	513	99.82%
452	507.72	931	99.63%	452	472.92	435	99,75%
433	512.06	704 AVG >>	99.73%	453	467.11	\$87 AVG >>	99.73%
english 8		1.15%		N 22 4 5 5 5 4	3 70	20.00	0.000
Unit	CBA production	SOZ emission	Sulphur Recovery	15-Har-26	CBA production	SO2 emission	Suiphur Recove
	MT/day	ppm	Efficiency	0.00	MT/day	ppm ppm	Efficiency
451	339.06	670	99.75%	451	491.89	580	99.80%
452	\$23.04	860	99.66%	452	478.23	83.1	99.69%
453	510,60	#93 AVG >>	99.73%	453	463.70 303.0	764 W/G >>	99.70%
451 452 453	CBA production HT/day 512,54 498,94 488,90 18839	902 en/asion ppm 625 755 785	Sulphur Recovery Efficiency 99.75% 90.09% 99.70%				
_	1000.00	AVG >>	99.72%				
07-Mar-2							
CHIL	CBA production	902 emission	Sulphur Receivery Efficiency				
451	MT/day 498,18	390 591	99.79%				
452	495.62	191	99.73%				
453	495.33	646	99.75%				
	318013	AVS >>	99,76%				
05-Mar-2	4						
Unit	CBA production	SEZ emplion	Sulphur Receivery				
141	MT/Cay	3811	Efficiency				
451	505.34	563	99.80%				
453	489.89 456.66	676	99,74%				
7,66	363.89	AVG >>	99,74%				
272.0	2	10.110					
UTIE	CBA production	SO2 emason	Sulphur Recovery				
1100	PIT/day	porti	Billidency				
453	467,37	486	99.82%				
452	468.31	621	99.76%				
453	355,25	571	99.75%				
	2010.00	AVG >>	99,78%				
10-Mar-2	4						
rive	CBA production	SOZ emission	Sulphur Recovery				
100	MT/day	ppm	Efficiency				
451	459.77	457	95.83%				
452	423.31	564	99.75%				
722	1897.8	WAG >>	99.78%				

6-Mar-24			The second second	25-Mar-24	T-mar-	100000000000000000000000000000000000000	A.C.L.
Unit	CBA production MT/day	502 emission ppm	Sulphur Recovery Efficiency	Unit	DBA production MT/day	502 emission ppm	Sulphur Recovery Efficiency
451	492.53	860	99.70%	451	480.11	655	99.69%
452	473.65	1067	99.59%	452	457.72	885	99.65%
453	451.70	1030	99.58%	453	433.18	750	99.69%
	301505	AVG >>	99.62%		1371/01	AVG >>	99.68%
7-Mar-24				26-Mar-24			
Unit	CBA production	502 emission	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Recovery
	PIT/day	ppm	Efficiency		MT/day	рэт	Efficiency
451	492,38	642	99.77%	451	481.00	665	99.67%
452	475.92	892	99.65%	452	467.27	915	99.65%
453	457.85	830	99.66%	453	450.81	784	99,68%
	50817	AVG >>	99,70%	-	2290.00	AVG >>	99,67%
8-Mar-24				27-Mar-24			
Det	CBA production	502 emission	Sulphur Recovery	Unit	CBA production	SO2 emission	Sulphur Recovery
	MT/day	рріті -	Efficiency	_	MT/day	ppm	Efficiency
451	494.56	662	99.77%	451	495.35	B68	99.70%
452	475.78	905	99.65%	452	468.14	1396	99,47%
453	453.40	134	99,56%	453	480.25	1277	99,50%
	1421.74	AVG >>	99.59%		1483.75	AVG >>	99.56%
9-Mar-24				28-Mar-24			
Unit	CBA production	502 emission	Sulphur Recovery	Unit	CBA production	S02 emission	Sulphur Recovery
-	MT/day	ppm	Efficiency		HT/eay	ppm	Efficiency
451	492.43	722	99.74%	451	500.70	665	99.77%
452	479-26	960	99.62%	452	474.50	1173	09.56%
453	454.11	363	99.65%	453	446.63	964	99.60%
	1435.00	AVG >>	99.67%		5435.89	AVG >>	99.64%
0-Mar-24				29-Mar-24	E		
Unit -	CBA production	SO2 emission	Sulphur Recevery Efficiency	Unit	CBA production	502 emission	Sulphur Recovery Efficiency
171	MT/day	ppm	The second secon	451	MT/day	pprii	
451	488.91	696	99.75%	451	485.53	534	99.81%
452	474.35	944	99.63%	452	462,25	992	99.61%
453	457.24	832 AVG >>	99.66%	453	435.35	824 AVG >>	99.65%
	Product	HILD P.F	37,00%		- Sentar	moze	33,0214
1-Mar-24 Unit	CBA production	502 emission	Sulphur Recovery	30-Mar-24 Unit	CBA production	502 emission	Sulphur Recovery
Unit	MT/day	ppm	Efficiency	UNI	MT/day		Efficiency
	Ordans.	679	99.76%	451	476.50	585	99.79%
451	A85.55		99.65%	452	457.06	1034	99.59%
451 452	495.25						
452	670,64	907	The state of the s	453		574	90 63%
			99.68%	453	430,57 136434	871 AVG >>	99.67%
452 453	670,64 452,21	907 790	99.68%		1304.34		
452	670,64 452,21	907 790	99.68%	31-Mar-24	1304.34		99.67%
452 453 2-Mar-24	670,64 452,21 1807.90	907 790 AVG >>	99.58% 99.59%	31-Mar-24	136434	AVG >>	99.67%
452 453 2-Mar-24	670,64 452,21 1807.90 CBA production	907 790 AVG >> SC2 enrisitor	99.68% 99.69% Sulptur Recovery	31-Mar-24	136434 CBA production	AVG >> 502 emission	99.67% Sulphur Recovery
452 453 2-Har-24 Unit	670,64 652,21 1807.90 CBA production MT/day	907 790 AVG >> SO2 erreston ppm 685	99.68% 99.69% Sulphur Recovery Efficiency	31-Mar-24 Unit	CBA production MT/day 473.21	AVG >> \$02 emission ppm 656	99.67% Sulphur Recovery Efficiency
452 453 2-Har-24 Unit 451	670,64 652,21 180790 CBA production MT/day 674,73	907 790 AVG >> SO2 erresson ppm	99.68% 99.69% Submur Recovery Efficiency 99.75%	31-Mar-24 Unit 451	136434 CBA production MT/day	502 emission spm 656 1100	99.67% Sulphur Recovery Efficiency 99.77%
452 453 2-Mar-24 Unit 451 452	670,64 452,21 1807.90 CBA production MT/day 474,73 467,07	907 790 AVG >> SC2 erreston ppm 685 858	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.67%	31-Mar-24 Unit 451 452	136434 CBA production MT/day 473.21 453.47	AVG >> \$02 emission ppm 656	99.67% Sulphur Recovery Efficiency 99.77% 99.57%
452 453 2-Har-24 Unit 451 452 453	670,64 452,21 186730 CBA production MT/day 474,73 467,07 457,10	907 790 AVG >> SO2 erreston ppm 685 858 739	99.68% 99.69% Submur Recovery Efficiency 99.75% 99.67% 99.70%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 452	670,64 452,21 1807.90 CBA production MT/day 474,73 467,07 457,10 1998.91	907 790 AVG >> SO2 erreston ppm 685 858 739	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.67% 99.70% 99.70%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 452 453 3-Mar-24 Unit	670,64 452,21 1867.90 CBA production MT/day 474,73 467,07 457,30 1988.80	907 730 AVG >> SO2 errestion ppm. 685 838 739 AVG >>	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.67% 99.70% 99.70%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Man-24 Unit 451 452 453 3-Man-24 Unit	670,64 452,21 1807.90 CBA production MT/day 474,73 467,07 457,10 1998.91	907 790 AVG >>  SO2 errestion ppm 685 838 739 AVG >>  SO2 errestion	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.67% 99.70% 99.70% Sulphur Recovery Efficiency 99.76%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 452 453 3-Mar-24 Unit	670,64 652,23 146790 CBA production MT/day 474,73 467,10 15688 CBA production MT/day	907 790 AVG >>  SO2 errestion ppm 685 858 739 AVG >>  SO2 errestion ppm	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.67% 99.70% 99.70%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Man-24 Unit 451 452 453 3-Man-24 Unit	670,64 652,21 186790 CBA production MT/day 674,73 467,07 457,10 1998 M	907 790 AVG >>  SO2 errestion ppm 685 858 739 AVG >>  SO2 emission ppm 675	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.67% 99.70% 99.70% Sulphur Recovery Efficiency 99.76%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 452 453 Unit 451 451 451 451	670,64 452,21 1807.90 CBA production MT/day 474,73 467.07 457.10 1998.80 CBA production MT/day 482.10 471,54	907 750 AVG >>  SO2 errisition ppm 685 858 739 AVG >>  SO2 errisistan ppm 675 910	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.70% 99.70% Sulphur Recovery Efficiency 99.76% 99.76%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 453 453 453 Unit 451 451 452 453	670,64 452,21 18030 CBA production MI/day 474,73 467,07 457,10 1988.80 CBA production MI/day 471,10 482,10 471,54 459,21	907 750 AVG >>  SC2 errestion ppm 685 858 739 AVG >>  \$02 errestion ppm 675 910 777	99.68% 99.69% Submur Recovery Efficiency 99.75% 99.75% 99.70% Submur Recovery efficiency 99.76% 99.75%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 452 453 Unit 451 451 451 451	670,64 452,21 18030 CBA production MI/day 474,73 467,07 457,10 1988.80 CBA production MI/day 471,10 482,10 471,54 459,21	907 750 AVG >>  SC2 errestion ppm 685 858 739 AVG >>  \$02 errestion ppm 675 910 777	99.68% 99.69%  Sulphur Recovery Efficiency 99.75% 99.75% 99.70% 99.70%  Sulphur Recovery Efficiency 99.76% 99.76% 99.76% Sulphur Recovery Sulphur Recovery	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 452 453 3-Mar-24 Unit 451 453 453 Unit	670,64 652,21 180730  CBA production MT/day 674,73 467.07 457.10 1998.80  CBA production MT/day 492,10 471,54 459,21 381,86	907 750 AVG >>  SO2 errisition ppm 685 858 739 AVG >>  SO2 errisistan ppm 675 910 777 AVG >>  907  4VG >>	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.75% 99.70% 99.70% Sulphur Recovery efficiency 99.76% 99.76% 99.76% Sulphur Recovery Efficiency Sulphur Recovery Efficiency	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 453 2-Mar-24 Unit 451 453 3-Mar-24 Unit 451 453 453 453 453 453 453	670,64 652,21 186790  CBA production MT/day 674,73 467,07 457,10 1998 M  CBA production MT/day 482,10 471,54 459,21 343,86	907 790 AVG >>  SO2 errestion ppm 685 858 739 AVG >>  SO2 errestion ppm 675 910 777 AVG >>	99.68% 99.69%  Sulphur Recovery Efficiency 99.75% 99.75% 99.70% 99.70%  Sulphur Recovery Efficiency 99.76% 99.76% 99.76% Sulphur Recovery Sulphur Recovery	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 2-Mar-24 Unit 451 453 3-Mar-24 Unit 451 453 453 453 453 453 453 453 453	670,64 652,21 186790  CBA production MT/day 474,73 467,10 18888  CBA production MT/day 482,10 471,54 459,21 381,86  CBA production MT/day 482,10 471,54 459,21 381,86	907 750 AVG >>  SO2 errisition ppm 685 858 739 AVG >>  SO2 errisistan ppm 675 910 777 AVG >>  907  4VG >>	99.68% 99.69%  Sulphur Recovery Efficiency 99.75% 99.75% 99.70% 99.70%  Sulphur Recovery Efficiency 99.76% 99.75% 99.75% Sulphur Recovery Efficiency 99.75% 99.63% 99.63%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%
452 453 453 2-Mar-24 Unit 451 453 3-Mar-24 Unit 451 453 453 453 453 453 453	670,64 652,21 1867.90  CBA production MI/day 474,73 467,07 457,10 1888.80  CBA production MI/day 471,54 459,21 341,86  CBA production MI/day 486,78	907 790 AVG >>  SC2 errestion ppm 685 858 739 AVG >>  SC2 errestion ppm 675 910 777 AVG >>  SC2 errestion ppm 675 910 777 AVG >>	99.68% 99.69% Sulphur Recovery Efficiency 99.75% 99.67% 99.70% 99.70% 99.76% 99.76% 99.76% 99.76% Sulphur Recovery Efficiency 99.76% Sulphur Recovery Efficiency 99.70%	31-Mar-24 Unit 451 452	13434 CBA production MT/day 473.21 453.47 427.67	502 emission ppm 656 3100 934	99.67% Sulphur Recovery Efficiency 99.77% 99.57% 99.61%

			ORING OF SO2 EMISSIC				
01-Oct-23			Culphus Decoupy Efficiency	11-Oct-23	004 1 11	000 1 1	Culphus Dogguess Efficie
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	384.93	254.5	99.92%	Z451	463.99	208.6	99.92%
Z452	SD	SD	SD	Z452	SD	SD	SD
Z453	387.02	147.6	99.93%	Z453	460.63	157.4	99.93%
Total	772.93	AVG >>	99.93%	Total	925.06	AVG >>	99.93%
00 0-4 00				40.0-4.00			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	12-Oct-23 Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
UIIIC	MT/day	ppm		OTIL	MT/day	ppm	
Z451	389.05	219.6	99.92%	Z451	450.44	199.0	99.91%
Z452	SD	SD SD	99.92% SD	Z452	430.44 SD	199.0 SD	SD SD
Z453	390.09	119.7	99.95%	Z453	445.60	157.4	99.93%
Total	779.76	AVG >>	99.93%	Total	896.44	AVG >>	99.92%
Total	775.70	AVG >>	33.3376	Total	030.44	AVG	33.3270
03-Oct-23				13-Oct-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
OTHE	MT/day	ppm		Offic	MT/day	ppm	
Z451	395.70	203.6	99.92%	Z451	436.07	224.9	99.93%
Z452	395.70 SD	203.6 SD	99.92% SD	Z452	436.07 SD	224.9 SD	99.9370 SD
Z452 Z453			99.93%	Z453			99.91%
Total	395.02 791.16	155.9 AVG >>	99.92%	Total	433.60 870.05	115.0 AVG >>	99.91%
rotdi	791.10	AVU >>	59.9270	rotar	370.05	AVU >>	33.32%
04-Oct-23				14-Oct-23			
Unit Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm		1	MT/day	ppm	
Z451	396.45	203.5	99.92%	Z451	421.27	177.4	99.91%
Z452	SD	SD	SD	Z452	SD	SD	SD
Z453	395.03	155.9	99.93%	Z453	420.48	80.5	99.92%
Total	791.93	AVG >>	99.92%	Total	842.15	80.5 AVG >>	99.92%
. ocai	7 71.53	AVO //	JJ.JE70	i otal	042.13	AV0 //	33.3170
05-Oct-23				15-Oct-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm	· · · · ·	J	MT/day	ppm	, , ,
Z451	447.97	253.9	99.92%	Z451	466.63	133.4	99.92%
Z452	SD	SD	SD	Z452	SD	SD	SD
Z453	448.99	163.9	99.93%	Z453	465.95	92.2	99.91%
Total	897.41	AVG >>	99.93%	Total	933.00	AVG >>	99.92%
			333333				
06-Oct-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	486.98	241.4	99.92%				
Z452	SD	SD	SD				
Z453	484.65	155.9	99.94%				
Total	972.08	AVG >>	99.93%				
TULAI	972.06	AVG >>	99.93%				
07-Oct-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Offic	MT/day	ppm					
Z451	514.51	260.3	99.92%				
Z452	SD	SD	SD SD				
Z452 Z453	511.26	175.2	99.93%				
Total	1026.22	1/5.2 AVG >>	99.93%				
			23.33.0				
08-Oct-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
-	MT/day	ppm					
Z451	501.94	248.1	99.93%				
Z452	SD	SD	SD				
Z453	499.63	157.4	99.93%				
Total	1002.03	AVG >>	99.93%				
09-Oct-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	493.62	199.8	99.92%				
Z452	SD	SD	SD				
Z453	493.44	157.4	99.92%				
Total	987.50	AVG >>	99.92%				
10-Oct-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
	498.81	200.5	99.91%				
Z451		200.5					
Z451 Z452	SD	SD	SD				
	SD 499.46	SD 157.4	SD 99.91%				

16-Oct-23				26-Oct-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
7.154	MT/day	ppm	00.040/	7.51	MT/day	ppm	00.030/
Z451	456.50	123.7	99.91%	Z451	406.25	198.9	99.92%
Z452	SD	SD	SD	Z452	SD	SD	SD 90,93%
Z453	455.88	106.0	99.92% 99.91%	Z453	405.24 811.93	174.8	99.92% 99.92%
Total	912.79	AVG >>	99.9170	Total	611.93	AVG >>	99.9270
17-Oct-23				27-Oct-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	459.67	257.0	99.92%	Z451	403.43	202.3	99.93%
Z452	SD	SD	SD	Z452	SD	SD	SD
Z453	458.22	128.1	99.92%	Z453	403.59	170.7	99.92%
Total	918.32	AVG >>	99.92%	Total	807.46	AVG >>	99.93%
18-Oct-23	CDA L L		Culphus Dogovona Efficionesa	28-Oct-23	CD4 L L		Culphus Bosovon, Efficie
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
Z451	MT/day	ppm	99.92%	Z451	MT/day	ppm	99.91%
Z452	474.76 SD	251.2 SD	SD	Z451 Z452	413.48 SD	246.1 SD	99.91 % SD
Z453	473.76	137.9	99.91%	Z453	415.64	170.7	99.92%
Total	948.95	AVG >>	99.92%	Total	829.55	AVG >>	99.92%
		-				-	
19-Oct-23				29-Oct-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	465.28	208.1	99.92%	Z451	420.22	246.1	99.91%
Z452	SD	SD	SD	Z452	SD	SD	SD
Z453	462.31	169.1	99.93%	Z453	422.98	170.7	99.92%
Total	928.02	AVG >>	99.92%	Total	843.64	AVG >>	99.92%
20-Oct-23				30-Oct-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
7451	MT/day	ppm	00.010/	7451	MT/day	ppm	00.030/
Z451 Z452	448.64	180.8	99.91% SD	Z451 Z452	457.25	246.1	99.92% SD
Z453	SD 444.33	SD 169.1	99.92%	Z452 Z453	SD 498.35	SD 173.4	99.93%
Total	893.40	AVG >>	99.91%	Total	956.04	AVG >>	99.92%
Total	033.10	7,7077	33.3170	10001	330.01	74,077	33.32.70
21-Oct-23				31-Oct-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	439.04	148.8	99.92%	Z451	463.31	-70.4	99.92%
Z452	SD	SD	SD	Z452	SD	SD	SD
Z453	436.30	169.1	99.93%	Z453	512.18	169.1	99.93%
Total	875.79	AVG >>	99.92%	Total	975.94	AVG >>	99.92%
22-Oct-23			Sulphur Recovery Efficiency				
	CPA production	CO2 amission					
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
	MT/day 492.75	ppm 182.2	99.92% SD				
Z451 Z452	MT/day	ppm	99.92%				
Z451 Z452 Z453	MT/day 492.75 SD	ppm 182.2 SD	99.92% SD				
Z451	MT/day 492.75 SD 494.08	ppm 182.2 SD 169.1	99.92% SD 99.93%				
Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08	ppm 182.2 SD 169.1	99.92% SD 99.93% 99.93%				
Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08	ppm 182.2 SD 169.1	99.92% SD 99.93%				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit	MT/day 492.75 SD 494.08 987.26	ppm 182.2 SD 169.1 AVG >>	99.92% SD 99.93% 99.93% Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit	MT/day 492.75 SD 494.08 987.26	ppm 182.2 SD 169.1 AVG >>	99.92% SD 99.93% 99.93% Sulphur Recovery Efficiency 99.93%				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452	MT/day 492.75 SD 494.08 987.26 CBA production MT/day 519.29	ppm 182.2 SD 169.1 AVG >> SO2 emission ppm 215.2 SD	99.92%  SD  99.93%  99.93%  Sulphur Recovery Efficiency  99.93%  SD				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452 Z453	MT/day 492.75 SD 494.08 987.26 CBA production MT/day 519.29 SD 541.45	ppm 182.2 SD 169.1 AVG >> SO2 emission ppm 215.2 SD 169.1	99.92%  SD  99.93%  99.93%  Sulphur Recovery Efficiency  99.93%  SD  99.93%				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452 Z453	MT/day 492.75 SD 494.08 987.26 CBA production MT/day 519.29	ppm 182.2 SD 169.1 AVG >> SO2 emission ppm 215.2 SD	99.92%  SD  99.93%  99.93%  Sulphur Recovery Efficiency  99.93%  SD				
Z451 Z452 Z453 Total 23-Oct-23 Unit Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08 987.26 CBA production MT/day 519.29 SD 541.45	ppm 182.2 SD 169.1 AVG >> SO2 emission ppm 215.2 SD 169.1	99.92%  SD  99.93%  99.93%  Sulphur Recovery Efficiency  99.93%  SD  99.93%				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency 99.93% SD 99.93% 99.93%				
Z451 Z452 Z453 Total 23-Oct-23 Unit Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>	99.92%  SD  99.93%  99.93%  Sulphur Recovery Efficiency  99.93%  SD  99.93%				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452 Z453 Total <b>24-Oct-23</b> Unit	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day	ppm  182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm	99.92%  SD  99.93%  99.93%  Sulphur Recovery Efficiency  99.93%  SD  99.93%  SD  99.93%  SD  99.93%  SUlphur Recovery Efficiency				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452 Z453 Total Unit Z451 Z452 Z453 Unit	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6	99.92% SD 99.93% 99.93%  Sulphur Recovery Efficiency 99.93% SD 99.93% 99.93% SD 99.93% 99.93%				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452 Z453 Total Unit Z451 Z452 Z453 Unit	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD	99.92% SD 99.93% 99.93%  Sulphur Recovery Efficiency 99.93% SD 99.93% 99.93% SD 99.93% 99.93% SD Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total  23-Oct-23 Unit  Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Z453 Z453 Z453 Z453 Z453 Z453	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD 449.78	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD 169.1	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93% SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93%  Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total <b>23-Oct-23</b> Unit Z451 Z452 Z453 Total <b>24-Oct-23</b> Unit	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD	99.92% SD 99.93% 99.93%  Sulphur Recovery Efficiency 99.93% SD 99.93% 99.93% SD 99.93% 99.93% SD Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total  23-Oct-23 Unit Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Total  Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD 449.78	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD 169.1	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93% SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93%  Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total  23-Oct-23 Unit Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD 449.78 892.24	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD 169.1 AVG >>	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93% SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93%  Sulphur Recovery Efficiency  99.93%  99.93%  99.93%				
Z451 Z452 Z453 Total  23-Oct-23 Unit Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Total  Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD 449.78 892.24	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD 169.1 AVG >>	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93% SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93%  Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total  23-Oct-23 Unit  Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Total  Unit	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD 449.78 892.24  CBA production MT/day	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD 169.1 AVG >>  SO2 emission ppm	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93% SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.91% SD 99.93% 99.92%  Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total  23-Oct-23 Unit Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Total Z451 Z452 Z453 Total Z451 Z451 Z452 Z453 Total	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD 449.78 892.24  CBA production MT/day 414.67	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD 169.1 AVG >>	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93% SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93%  Sulphur Recovery Efficiency  99.93%  99.93%  99.93%				
Z451 Z452 Z453 Total  23-Oct-23 Unit Z451 Z452 Z453 Total  24-Oct-23 Unit  Z451 Z452 Z453 Total  Unit  Z451 Z452 Z453 Unit Z452 Z453 Unit Z452 Z453 Z453 Z453 Z453 Z453 Z453 Z453 Z453	MT/day 492.75 SD 494.08 987.26  CBA production MT/day 519.29 SD 541.45 1061.19  CBA production MT/day 442.00 SD 449.78 892.24  CBA production MT/day	ppm 182.2 SD 169.1 AVG >>  SO2 emission ppm 215.2 SD 169.1 AVG >>  SO2 emission ppm 142.6 SD 169.1 AVG >>  SO2 emission ppm	99.92%  SD 99.93% 99.93%  Sulphur Recovery Efficiency  99.93%  SD 99.93%  99.93%  Sulphur Recovery Efficiency  99.91%  SD 99.93%  99.92%  Sulphur Recovery Efficiency				

01-Nov-23				11-Nov-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	479.78	255.0	99.92%	Z451	486.96	255.0	99.92%
Z452	SD	SD	SD	Z452	SD	SD	SD
Z453	559.42	187.5	99.93%	Z453	543.53	196.4	99.92%
Total	1039.67	AVG >>	99.92%	Total	1031.19	AVG >>	99.92%
02-Nov-23				12-Nov-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
Onne	MT/day	ppm		Onic	MT/day	ppm	
Z451	467.83	255.0	99.92%	Z451	441.24	255.0	99.91%
Z452	SD	SD	SD	Z452	170.34	135.0	99.90%
Z453	518.73	169.1	99.93%	Z453	486.24	154.3	99.94%
Total	987.02	AVG >>	99.92%	Total	1097.81	AVG >>	99.92%
00 Na 00				42 Nov. 22			
03-Nov-23	CBA production	SO2 emission	Sulphur Recovery Efficiency	13-Nov-23	CBA production	SO2 emission	Sulphur Recovery Efficie
Unit	MT/day	ppm	Sulphur Recovery Efficiency	Unit	MT/day	ppm	Sulphur Recovery Efficie
Z451	470.51	255.0	99.92%	Z451	378.33	255.0	99.91%
Z452	SD	SD SD	SD	Z452	355.33	811.6	99.91%
Z453	543.02	181.8	99.93%	Z453	357.45	140.2	99.93%
Total	1013.99	AVG >>	99.92%	Total	1091.12	AVG >>	99.82%
04-Nov-23	004	000	Culphus Deceuer: Efficiency	14-Nov-23			Culabus Daggers FCC
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
Z451	MT/day	ppm	00.000	Z451	MT/day	ppm	00.010/
Z451 Z452	469.54 SD	255.0 SD	99.92% SD	Z451 Z452	365.41 362.78	255.0 867.0	99.91% 99.91%
Z452 Z453	533.94	176.5	99.93%	Z453	352.78	140.2	99.93%
Total	1003.94	AVG >>	99.92%	Total	1087.39	AVG >>	99.81%
05-Nov-23				15-Nov-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	475.45	255.0	99.92%	Z451	400.10	255.0	99.91%
Z452	SD	SD	SD	Z452	414.72	923.4	99.92%
Z453 Total	528.53 1004.44	169.9 AVG >>	99.93% 99.92%	Z453 Total	414.02 1228.84	140.2 AVG >>	99.94% 99.81%
rocar	100	71.077	33.32.70	1 0001	1220.01	XV077	33.0170
06-Nov-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	479.00	255.0	99.92%				
Z452	SD	SD	SD				
Z453	566.17	260.6	99.90%				
Total	1045.65	AVG >>	99.91%				
07-Nov-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Jiiii	MT/day	ppm	,,				
Z451	472.79	255.0	99.92%				
Z452	SD	SD	SD				
Z453	533.19	198.3	99.92%				
Total	1006.45	AVG >>	99.92%				
08-Nov-23	CDA	CO2 1 1	Culphur Pocovory Efficiency				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Z451	MT/day	ppm 255.0	99.92%				
Z451 Z452	462.26 SD	255.0 SD	99.92% SD				
Z453	509.45	163.0	99.93%				
Total	972.18	AVG >>	99.92%				
09-Nov-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	458.27	255.0	99.92%				
Z452	SD SD	SD	SD				
Z453 Total	506.24 964.97	134.4 AVG >>	99.93% 99.92%				
ı utdi	504.97	MVU >>	59.9270				
10-Nov-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Jille	MT/day	ppm	,,				
Z451	485.28	255.0	99.92%				
Z452	SD	SD	SD				
5_							
Z453	563.65	203.7	99.92%				

16-Nov-23				26-Nov-23	•		
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	388.16	255.0	99.91%	Z451	507.76	255.0	99.92%
Z452	566.65	921.0	99.93%	Z452	528.40	224.2	99.93%
Z453	422.64	140.2	99.94%	Z453	385.91	250.5	99.9%
Total	1377.45	AVG >>	99.83%	Total	1422.06	AVG >>	99.91%
17-Nov-23				27-Nov-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	420.65	255.0	99.91%	Z451	441.87	255.0	99.91%
Z452	644.78	611.1	99.93%	Z452	471.77	222.3	99.93%
Z453	427.49	142.4	99.94%	Z453	433.04	285.1	99.88%
Total	1492.91	AVG >>	99.87%	Total	1346.68	AVG >>	99.90%
18-Nov-23				28-Nov-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
OTTIC	MT/day	ppm		- Oline	MT/day	ppm	
Z451	405.60	255.0	99.91%	Z451	423.41	255.0	99.91%
Z452	642.65	378.7	99.85%	Z452	428.77	230.7	99.92%
Z453	419.79	139.1	99.94%	Z453	423.06	60.5	99.92%
Total	1468.04	139.1 AVG >>	99.90%	Total	1275.25	AVG >>	99.92%
. Otal	1400.04	AVG //	55.5070	rotai	1273.23	AVG //	J3.3270
19-Nov-23				20 Nov 22			
	CBA production	CO2 omissis:	Sulphur Recovery Efficiency	29-Nov-23		CO2 amissis:	Sulphur Recovery Efficie
Unit	· ·	SO2 emission	Sulphul Recovery Efficiency	Unit	CBA production	SO2 emission	Sulption Recovery Efficie
7451	MT/day	ppm	00.010/	7454	MT/day	ppm	00.0107
Z451	378.42	255.0	99.91%	Z451	374.07	255.0	99.91%
Z452	634.03	497.8	99.91%	Z452	379.33	224.7	99.92%
Z453	386.76	195.3	99.91%	Z453	374.57	45.2	99.91%
Total	1399.21	AVG >>	99.88%	Total	1127.97	AVG >>	99.91%
20-Nov-23				30-Nov-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	420.74	255.0	99.91%	Z451	376.48	255.0	99.91%
Z452	517.56	533.6	99.91%	Z452	381.61	222.3	99.92%
Z453	434.86	200.0	99.91%	Z453	378.67	27.1	99.91%
Total	1373.16	AVG >>	99.87%	Total	1136.75	AVG >>	99.91%
21-Nov-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
0.110	MT/day	ppm					
Z451	474.81	255.0	99.92%				
Z452	476.42	359.5	99.92%				
Z453	475.98	235.0	99.90%				
Total	1427.22	AVG >>	99.89%				
TOCAL	1427.22	AVG >>	33.0370				
00 Nav. 00							
22-Nov-23	GD4 1 11	000 : :	Culphus Dogguess Efficiency				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
745	MT/day	ppm	0				
Z451	472.89	255.0	99.92%				
Z452	477.69	208.5	99.92%				
Z453	481.43	258.2	99.9%				
Total	1432.01	AVG >>	99.91%				
23-Nov-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	460.65	255.0	99.91%				
Z452	464.50	227.8	99.91%				
Z453	461.60	208.4	99.91%				
Total	1386.75	AVG >>	99.91%		İ	İ	
24-Nov-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
UTIFL	MT/day		,				
7/51	· ·	ppm	99 919/				
Z451	440.09	255.0	99.91%				
Z452 Z453	444.01	221.5	99.92% 99.91%				
	441.04	157.0					
	1325.13	AVG >>	99.92%				
Total							
Total							
Total	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Total <b>25-Nov-23</b>	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Efficiency				
Total <b>25-Nov-23</b>			99.91%				
Total  25-Nov-23  Unit	MT/day	ppm					
Total  25-Nov-23  Unit  Z451	MT/day 450.40	ppm 255.0	99.91%				

MT/day	01-Dec 22				11 Dog 22			
M7/day   pom		CBA production	SO2 emission	Sulphur Recovery Efficiency		CBA production	SO2 emission	Sulphur Recovery Efficie
2451   421,54   230.0   99.90%   2452   445,77   220.0   99.90%   2452   427,273   227,273   200.0   99.90%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   445,91   160.0   90.00%   2452   2452   2450   90.0   90.90%   2452   2452   2452   90.0   90.90%   2452   2452   2452   90.0   90.90%   2452   2452   2452   90.0   90.90%   2452   2452   2452   90.0   90.90%   2452   2452   2452   90.0   90.90%   2452   2452   2452   90.0   90.90%   2452   245	OTTIC				Offic			
2425	Z451			99.90%	Z451			99.90%
2431   132,144					_			
1723   1724   A/G >								
Date								
Disk	02-Dec-23				12-Dec-23			
2451				Sulphur Recovery Efficiency				Sulphur Recovery Efficie
2422	7454				7454			00.000/
2433   530.92   1915   99.99%   99.92%   1915   99.92%								
Total   1517-72								
13-Dec-23								
Link	Total	1517.73	AVG >>	99.92%	Total	1536.89	AVG >>	99.91%
Link	03-Dec-23				13-Dec-23			
MT/day   ppm		CBA production	SO2 emission	Sulphur Recovery Efficiency		CBA production	SO2 emission	Sulphur Recovery Efficie
2451   440.09   250.0   99.99%   2452   250.0   99.90%   2452   252.3   250.0   99.90%   2452   252.3   252.4   390.02%   252.4   250.0   99.90%   2452   252.3   252.4   390.02%   252.4   250.0   99.90%   2452   252.3   252.4   390.02%   252.4   250.0   252.4   252.2								
2452   542.72   222.3   99.93%   2453   586.15   223.8   99.92%   2453   586.15   223.8   99.92%   2453	Z451			99.90%	Z451			99.90%
2433   580.61   238.8   99.91%   Total   153.23   AVG >> 99.91%   Total   155.323   AVG >> 99.91%   Total   157.34   AVG >> 99.91%   Total   157.36   AVG >> 99.93%   AVG >> 99.91%   Total   157.36   AVG >> 99.93%   AVG >> 99.								
Total   193.42   AVG >>   99.91%     Total   1553.23   AVG >>   99.91%								
14-De-23								
Link								
MT/day   opn   99.90%   2451   4242   250 0   99.90%   2452   546.48   222   3   99.93%   2452   530.09   257.2   299.91%   2451   432.74   250 0   99.90%   257.2   299.91%   2451   432.74   250 0   99.90%   257.2   299.91%   2451   432.74   250 0   99.90%   257.2   299.91%   2451   434.94   250 0   99.90%   257.2   299.91%   2451   444.94   250 0   99.90%   2451   444.20   250 0   99.90%   2451   444.20   250 0   99.90%   2452   449.49   255 0   99.90%   2451   444.20   250 0   99.90%   2451   444.20   250 0   99.90%   2451   444.20   250 0   99.90%   2451   444.20   250 0   99.90%   2451   444.20   250 0   99.90%   2451   444.20   250 0   99.90%   2451   444.20   250 0   99.90%   2451   445.40   2452   449.49   255 0   99.90%   2451   445.40   2452   449.49   255 0   99.90%   2451   445.40   2452   449.49   255 0   99.90%   2451   445.40   2452   449.49   255 0   99.90%   2451   446.83   250 0   99.90%   2451   446.83   250 0   99.90%   2451   446.83   250 0   99.90%   2451   446.83   250 0   99.90%   2452   448.39   250 0   99.90%   2451   446.83   250 0   99.90%   2451   446.83   250 0   99.90%   2451   446.83   250 0   99.90%   2452   448.39   250 0   99.90%   2453   488.73   212.3   99.92%   2453   488.73   212.3   99.92%   2453   488.73   212.3   99.92%   2451   446.83   250 0   99.90%   2452   446.83   250 0   99.90%   2452   446.83   250 0   99.90%   2453   446.83   250 0   99.90%   2453   446.83   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2451   446.83   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   2452   449.20   250 0   99.90%   24	04-Dec-23				14-Dec-23			
2451   590.55   220.0   99.90%   2452   586.80   222.3   99.93%   2453   586.21   186.0   99.93%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   24		CBA production	SO2 emission	Sulphur Recovery Efficiency		CBA production	SO2 emission	Sulphur Recovery Efficie
2451   590.55   220.0   99.90%   2452   586.80   222.3   99.93%   2453   586.21   186.0   99.93%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   586.30   223.8   99.92%   2453   24			ppm				ppm	
2452   588.48   222.3   99.93%   2452   530.09   257.2   99.91%   2453   563.00   237.2   99.91%   2451   1582.24   AVG >>   99.92%   7 total   1577.14   AVG >>   99.92%   7 total   1577.14   AVG >>   99.91%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2451   404.97   226.0   99.90%   2452   404.91   225.0   99.90%   2452   404.91   225.0   99.90%   2452   404.91   225.0   99.90%   2452   404.91   225.0   99.90%   2452   404.91   225.0   99.90%   2452   404.91   225.0   99.90%   2452   404.91   225.0   227.3   99.90%   2452   406.83   227.3   99.93%   2452   406.83   227.3   99.93%   2452   406.83   220.0   99.90%   2452   406.83   220.0   99.90%   2452   406.83   220.0   99.90%   2453   406.40   220.0   99.90%   2453   406.40   220.0   99.90%   2452   406.40   220.0   99.90%   2451   406.40   220.0   99.90%   2452   406.40   220.0   99.90%   2451   406.40   220.0   99.90%   2452   406.40   220.0   99.90%   2451   406.40   220.0   99.90%   2452   406.40   220.0   99.90%   2451   406.40   220.0   99.90%   2451   406.40   220.0   99.90%   2452   406.90   222.3   99.90%   2452   406.90   222.3   99.90%   2452   406.90   222.3   99.90%   2452   406.90   222.3   99.90%   2451   406.90   206.00	Z451			99.90%	Z451			99.90%
2451   358.21   18.0   99.93%   7 total   1577.14   275.0   99.92%   15-De-23   15-De-	Z452				Z452			99.91%
Total   1534.24	Z453	585.21			Z453			99.92%
Unit								
Unit								
MT/day   ppm	05-Dec-23				15-Dec-23			
Z451	Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficient
Z452   S28.98   222.3   99.93%   Z452   494.91   235.9   99.92%		MT/day	ppm			MT/day	ppm	
Total   1575.08   AVG >   99.92%   Total   1475.46   AVG >   99.91%	Z451	494.97	250.0	99.90%	Z451	474.20	250.0	99.90%
Total   1575.08   AVG >>   99.92%   Total   1475.46   AVG >>   99.91%	Z452	528.98	222.3	99.93%	Z452	494.91	235.9	99.92%
Total   1575.08	Z453	551.13	162.1	99.94%	Z453	506.35	227.8	99.91%
Unit         CEA production         SO2 emission MT/day         Sulphur Recovery Efficiency ppm           2451         483,98         250.0         99.90%           2452         504.26         222.3         99.93%           315.78         1186.7         99.93%           375.78         1515.78         186.7         99.93%           476.3         1504.03         AVG >>         99.92%           97-Dec-23         200.0         99.90%         99.90%           2451         466.83         250.0         99.90%           2452         483.22         222.3         99.93%           2453         488.73         212.3         99.93%           2451         486.83         250.0         99.90%           2452         483.22         222.3         99.93%           2451         488.73         212.3         99.99%           98-Dec-23         Unit         CBA production         SO2 emission MT/day           MT/day         ppm         99.90%           2452         469.26         250.0         99.90%           2453         471.79         205.4         99.92%           2451         460.46         250.0         99.90%	Total		AVG >>	99.92%	Total	1475.46	AVG >>	99.91%
Unit         CEA production         SO2 emission MT/day         Sulphur Recovery Efficiency ppm           2451         483,98         250.0         99.90%           2452         504.26         222.3         99.93%           315.78         1186.7         99.93%           375.78         1515.78         186.7         99.93%           476.3         1504.03         AVG >>         99.92%           97-Dec-23         200.0         99.90%         99.90%           2451         466.83         250.0         99.90%           2452         483.22         222.3         99.93%           2453         488.73         212.3         99.93%           2451         486.83         250.0         99.90%           2452         483.22         222.3         99.93%           2451         488.73         212.3         99.99%           98-Dec-23         Unit         CBA production         SO2 emission MT/day           MT/day         ppm         99.90%           2452         469.26         250.0         99.90%           2453         471.79         205.4         99.92%           2451         460.46         250.0         99.90%	00 Dec 00							
MT/day		CBA production	SO2 emission	Sulphur Recovery Efficiency				
2451	OTTIC			,,				
Z452       504.26       222.3       99.93%         Z453       515.78       186.7       99.93%         1504.03       AVG >>       99.92%         O7-Dec-23         Unk       CBA production       S02 emission       Sulphur Recovery Efficiency         Link       CBA production       99.90%         Z451       466.83       250.0       99.93%         Z452       483.22       222.3       99.93%         Z453       488.73       212.3       99.93%         Z451       486.64       32.00       99.91%         O8-Dec-23       Unit       CBA production       MT/day         MT/day       ppm       MT/day         Z451       469.66       250.0       99.90%         Z452       469.26       222.3       99.93%         Z453       471.79       205.4       99.92%         Total       1401.51       AVG >>       99.91%         O9-Dec-23       Unit       CBA production       SO2 emission         Wind       CBA production       SO2 emission       Ppm         2451       447.94       250.0       99.90%         2452       453.50       193.6       <	7451			99 90%				
2453								
Total   1504.03								
O7-Dec-23								
Unit	Total	13003	711077	3313270				
MT/day	07-Dec-23							
2451     466.83     250.0     99.90%       2452     483.22     222.3     99.92%       Total     1438.79     AVG >>     99.91%       08-Dec-23       Unit     CBA production     SO2 emission ppm     Sulphur Recovery Efficiency ppm       2451     460.46     250.0     99.90%       2452     469.26     222.3     99.93%       2453     471.79     205.4     99.92%       Total     1401.51     AVG >>     99.91%       O9-Dec-23       Unit     CBA production MT/day     SO2 emission ppm     Sulphur Recovery Efficiency ppm       2451     447.94     250.0     99.90%       2452     453.52     222.3     99.92%       2453     453.60     193.6     99.92%       2453     453.60     193.6     99.92%       Total     1355.05     AVG >>     99.91%       10-Dec-23       Unit     CBA production ppm     SO2 emission ppm       4451     427.32     250.0     99.90%       4452     428.89     222.3     99.90%       2451     428.89     222.3     99.90%	Unit			Sulphur Recovery Efficiency				
Z452     483.22     222.3     99.93%       Z453     488.73     212.3     99.92%       Total     1438.79     AVG >>     99.91%       B-Dec-23     VINIT     CBA production     SO2 emission     Sulphur Recovery Efficiency       Z451     460.46     250.0     99.90%       Z452     469.26     222.3     99.93%       Z453     471.79     205.4     99.92%       Total     1401.51     AVG >>     99.91%       Unit     CBA production     SO2 emission     Sulphur Recovery Efficiency       WMT/day     ppm     Sulphur Recovery Efficiency       Z451     447.94     250.0     99.90%       Z452     453.52     222.3     99.92%       Z453     453.60     193.6     99.92%       Z451     473.32     222.3     99.91%       Total     1355.05     AVG >>     99.91%       Unit     CBA production     SO2 emission     Sulphur Recovery Efficiency       Unit     CBA production     SO2 emission       MT/day     ppm       Unit     CBA production     SO2 emission       MT/day     ppm       Unit     CBA production     SO2 emission       MT/day     ppm       <	245							
Z453								
Total 1438.79 AVG >> 99.91%								
OB-Dec-23   Sulphur Recovery Efficiency   Solphur Recovery Effic								
Unit   CBA production   MT/day   ppm   Sulphur Recovery Efficiency   Sulphur Recovery Efficien	ıotaı	1438.79	AVG >>	99.91%				
Unit   CBA production   MT/day   ppm   Sulphur Recovery Efficiency   Sulphur Recovery Efficien	08-Dec-23							
MT/day   ppm		CBA production	SO2 emission	Sulphur Recovery Efficiency				
2451     460.46     250.0     99.90%       2452     469.26     222.3     99.92%       Total     1401.51     AVG >>     99.91%       O9-Dec-23       Unit     CBA production     SO2 emission ppm     Sulphur Recovery Efficiency ppm       2451     447.94     250.0     99.90%       2452     453.52     222.3     99.92%       3453     453.60     193.6     99.92%       3453     453.60     193.6     99.92%       3453     453.00     193.6     99.92%       3453     453.00     193.6     99.92%       3453     453.00     193.6     99.91%       3454     453.50     50.2     99.91%       3454     453.50     99.91%     99.91%       3454     453.50     99.91%     99.91%       345     453.60     99.91%     99.91%       345     453.60     99.91%     99.91%       345     453.60     99.91%     99.91%       345     453.60     99.91%     99.91%       345     453.60     99.91%     99.91%       345     453.60     99.91%     99.91%       345     453.60     99.91%     99.91% <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
Z452     469.26     222.3     99.93%       Z453     471.79     205.4     99.92%       Total     1401.51     AVG>>     99.91%       09-Dec-23       Unit     CBA production MT/day     SO2 emission pm     Sulphur Recovery Efficiency pm       Z451     447.94     250.0     99.90%       Z452     453.52     222.3     99.92%       Z453     453.60     193.6     99.92%       Total     1355.05     AVG >>     99.91%       10-Dec-23       Unit     CBA production pm     SO2 emission pm       MT/day pm     Sulphur Recovery Efficiency pm       Z451     427.32     250.0     99.90%       Z452     428.89     222.3     99.92%	Z451			99.90%				
2453     471.79     205.4     99.92%       Total     1401.51     AVG >>     99.91%       109-Dec-23       Unit     CBA production MT/day     SO2 emission pm     Sulphur Recovery Efficiency       2451     447.94     250.0     99.90%       2452     453.52     222.3     99.92%       2453     453.60     193.6     99.92%       Total     1355.05     AVG >>     99.91%       10-Dec-23     502 emission pm     Sulphur Recovery Efficiency pm       2451     427.32     250.0     99.90%       2452     428.89     222.3     99.90%	Z452			99.93%				
Total 1401.51 AVG >> 99.91%								
Unit   CBA production   SO2 emission   ppm   Sulphur Recovery Efficiency   Sulphur Recovery Ef	Total	1401.51						
Unit   CBA production   SO2 emission   ppm   Sulphur Recovery Efficiency   Sulphur Recovery Ef	00-Doc 22							
MT/day   ppm		CBA production	SO2 emission	Sulphur Recovery Efficiency				
Z451     447.94     250.0     99.90%       Z452     453.52     222.3     99.92%       Z453     453.60     193.6     99.92%       Total     1355.05     AVG >>     99.91%       10-Dec-23       Unit     CBA production     SO2 emission ppm     Sulphur Recovery Efficiency       MT/day     ppm       Z451     427.32     250.0     99.90%       Z452     428.89     222.3     99.92%				· · · ·				
Z452     453.52     222.3     99.92%       Z453     453.60     193.6     99.92%       Total     1355.05     AVG >>     99.91%       10-Dec-23       Unit     CBA production MT/day     SO2 emission pm     Sulphur Recovery Efficiency       Z451     427.32     250.0     99.90%       Z452     428.89     222.3     99.92%	Z451			99.90%				
Z453     453.60     193.6     99.92%       Total     1355.05     AVG >>     99.91%       10-Dec-23       Unit     CBA production MT/day ppm     SUlphur Recovery Efficiency ppm       Z451     427.32     250.0     99.90%       Z452     428.89     222.3     99.92%								
Total         1355.05         AVG >>         99.91%           10-Dec-23           Unit         CBA production MT/day         SO2 emission ppm         Sulphur Recovery Efficiency           2451         427.32         250.0         99.90%           2452         428.89         222.3         99.92%								
10-Dec-23 Unit CBA production SO2 emission ppm Sulphur Recovery Efficiency MT/day ppm S250.0 99.90% 2451 427.32 250.0 99.90% 2452 428.89 222.3 99.92%								
Unit         CBA production         SO2 emission ppm         Sulphur Recovery Efficiency           Z451         427.32         250.0         99.90%           Z452         428.89         222.3         99.92%								
MT/day         ppm           Z451         427.32         250.0         99.90%           Z452         428.89         222.3         99.92%	10-Dec-23							
Z451     427.32     250.0     99.90%       Z452     428.89     222.3     99.92%	- i	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Z452 428.89 222.3 99.92%		MT/day	ppm					
Z452 428.89 222.3 99.92%	Z451			99.90%				
	Z452		222.3	99.92%				
			165.3	00.030/				

16-Dec-23	-		0.11 0	26-Dec-23			0.11. 5
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	477.29	250.0	99.90%	Z451	393.56	250.0	99.90%
Z452	480.42	204.7	99.93%	Z452	394.42	209.7	99.92%
Z453	477.88	218.4	99.91%	Z453	387.78	218.4	99.91%
Total	1435.59	AVG >>	99.91%	Total	1175.77	AVG >>	99.91%
17-Dec-23				27-Dec-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	483.77	250.0	99.90%	Z451	450.44	250.0	99.90%
Z452	489.30	212.0	99.93%	Z452	463.87	202.5	99.93%
Z452			99.91%	Z452 Z453			99.94%
	489.42	220.7			465.44	218.4	
Total	1462.49	AVG >>	99.91%	Total	1379.76	AVG >>	99.92%
18-Dec-23				28-Dec-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency		CBA production	SO2 emission	Sulphur Recovery Efficie
Unit			Supridi recovery Emelency	Unit			Sulphul Necovery Erricie
	MT/day	ppm			MT/day	ppm	
Z451	475.71	250.0	99.90%	Z451	466.98	250.0	99.90%
Z452	480.06	228.3	99.92%	Z452	490.44	192.7	99.94%
Z453	485.47	237.9	99.91%	Z453	507.37	218.4	99.94%
Total	1441.24	AVG >>	99.91%	Total	1464.78	AVG >>	99.94%
19-Dec-23				29-Dec-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	475.51	250.0	99.90%	Z451	461.63	250.0	99.90%
Z452	475.65	207.0	99.93%	Z452	473.13	204.3	99.93%
Z453	463.60	218.4	99.91%	Z453	477.86	218.4	99.93%
Total	1414.76	AVG >>	99.91%	Total	1412.62	AVG >>	99,94%
	2.2.170						33.31.70
20-Dec-23				30-Dec-23			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
OTTIC	MT/day	ppm		- Ornic	MT/day	ppm	
Z451	445.09	250.0	99.90%	Z451	437.63	250.0	99.92%
Z452	446.40	207.0	99.93%	Z452	442.86	209.3	99.93%
Z453			99.93%	Z453			99.94%
	444.97	218.4			441.33	218.4	
Total	1336.46	AVG >>	99.92%	Total	1321.82	AVG >>	99.93%
04 D 00				04 D 00			
21-Dec-23			Culphus Barrier Efficiency	31-Dec-23			Culabum Danasura Efficia
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	457.24	250.0	99.90%	Z451	395.96	250.0	99.91%
Z452	456.39	207.0	99.93%	Z452	404.09	197.0	99.93%
Z453	447.17	218.4	99.94%	Z453	398.36	218.4	99.94%
Total	1360.80	AVG >>	99.92%	Total	1198.40	AVG >>	99.93%
22-Dec-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	350.77	250.0	99.90%				
Z452	469.95	207.0	99.93%				
Z453	462.76	218.4	99.94%				
Total	1283.49	AVG >>	99.92%				
· ocus	2203.43		33.3270				
23-Dec-23							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
		ppm					
Offic	MT/day	ppiii					
			99.90%				
Z451	369.73	250.0	99.90% 99.95%				
Z451 Z452	369.73 453.63	250.0 164.6	99.95%				
Z451 Z452 Z453	369.73 453.63 449.86	250.0 164.6 264.4	99.95% 99.89%				
Z451 Z452	369.73 453.63	250.0 164.6	99.95%				
Z451 Z452 Z453 Total	369.73 453.63 449.86	250.0 164.6 264.4	99.95% 99.89%				
Z451 Z452 Z453 Total <b>24-Dec-23</b>	369.73 453.63 449.86 1273.22	250.0 164.6 264.4 AVG >>	99.95% 99.89% 99.91%				
Z451 Z452 Z453 Total	369.73 453.63 449.86 1273.22 CBA production	250.0 164.6 264.4 AVG >>	99.95% 99.89%				
Z451 Z452 Z453 Total <b>24-Dec-23</b> Unit	369.73 453.63 449.86 1273.22 CBA production MT/day	250.0 164.6 264.4 AVG >>	99.95% 99.89% 99.91% Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total <b>24-Dec-23</b> Unit Z451	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90%				
Z451 Z452 Z453 Total  24-Dec-23 Unit Z451 Z452	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92%				
Z451 Z452 Z453 Total  24-Dec-23 Unit  Z451 Z452 Z453	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6 132.0	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92% 99.95%				
Z451 Z452 Z453 Total  24-Dec-23 Unit Z451 Z452	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92%				
Z451 Z452 Z453 Total  24-Dec-23 Unit  Z451 Z452 Z453 Total	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6 132.0	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92% 99.95%				
Z451 Z452 Z453 Total  24-Dec-23 Unit  Z451 Z452 Z452 Z452 Total  Z5452 Z652 Total	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46 1249.46	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6 132.0 AVG >>	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92% 99.95% 99.92%				
Z451 Z452 Z453 Total  24-Dec-23 Unit  Z451 Z452 Z453 Total	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46 1249.46	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6 132.0 AVG >>	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92% 99.95%				
Z451 Z452 Z453 Total  24-Dec-23 Unit  Z451 Z452 Z452 Z452 Total  Z5452 Z652 Total	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46 1249.46	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6 132.0 AVG >>	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92% 99.95% 99.92%				
Z451 Z452 Z453 Total  24-Dec-23 Unit  Z451 Z452 Z452 Z452 Total  Z5452 Z652 Total	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46 1249.46	250.0 164.6 264.4 AVG >> SO2 emission ppm 250.0 208.6 132.0 AVG >>	99.95% 99.89% 99.91% Sulphur Recovery Efficiency 99.90% 99.92% 99.95% 99.92%				
Z451 Z452 Z453 Total  24-Dec-23 Unit  Z451 Z452 Z453 Total  25-Dec-23 Unit	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46 1249.46 CBA production MT/day 385.44	250.0 164.6 264.4 AVG >>  SO2 emission ppm 250.0 208.6 132.0 AVG >>  SO2 emission ppm 250.0	99.95% 99.89% 99.91%  Sulphur Recovery Efficiency 99.90% 99.92% 99.95% 99.92%  Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total Z4-Dec-23 Unit Z451 Z452 Z453 Unit Z451 Z452 Z453 Unit Z451 Z452 Z453 Total Z452 Z453 Total Z454 Unit Z451	369.73 453.63 449.86 1273.22 CBA production MT/day 415.74 419.26 414.46 1249.46 CBA production MT/day	250.0 164.6 264.4 AVG >>  SO2 emission ppm 250.0 208.6 132.0 AVG >>  SO2 emission ppm	99.95% 99.89% 99.91%  Sulphur Recovery Efficiency 99.90% 99.92% 99.92% Sulphur Recovery Efficiency				

01-Jan-24				11-Jan-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficien
	MT/day	ppm			MT/day	ppm	
Z451	400.88	250.0	99.92%	Z451	515.48	250.0	99.92%
Z452	406.14	193.4	99.93%	Z452	552.99	221.3	99.93%
Z453	401.36	27.3	99.95%	Z453	576.24	192.4	99.93%
Total	1208.38	AVG >>	99.93%	Total	1644.72	AVG >>	99.93%
02-Jan-24				12-Jan-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	388.32	250.0	99.95%	Z451	548.80	250.0	99.91%
Z452	396.06	191.0	99.94%	Z452	568.73	240.2	99.93%
Z453	386.85	108.1	99.96%	Z453	577.76	197.0	99.93%
Total	1171.23	AVG >>	99.95%	Total	1695.29	AVG >>	99.92%
03-Jan-24				13-Jan-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	357.13	250.0	99.94%	Z451	584.84	250.0	99.95%
Z452	360.19	209.9	99.92%	Z452	616.94	245.3	99.93%
Z453	354.60	178.6	99.92%	Z453	632.38	197.0	99.99%
Total	1071.92	1/8.6 AVG >>	99.93%	Total	1834.17	197.0 AVG >>	99.95%
04-Jan-24			0.11.0	14-Jan-24			500
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	389.22	250.0	99.93%	Z451	598.59	250.0	99.92%
Z452	392.11	187.3	99.94%	Z452	607.93	245.3	99.93%
Z453	393.57	177.3	99.92%	Z453	604.39	197.0	99.93%
Total	1174.90	AVG >>	99.93%	Total	1810.91	AVG >>	99.92%
05 Jan 24				15-Jan-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
UIIIL	MT/day	ppm	Sulphur recovery Emelency	Offic	MT/day	ppm	Supriur recovery Erricier
Z451	442.24	250.0	99.93%	Z451	492.91	250.0	99.93%
Z452	443.62	196.9	99.94%	Z452	496.49	245.3	99.92%
Z453	442.36	187.8	99.92%	Z453	487.58	197.0	99.93%
Total	1328.22	AVG >>	99.93%	Total	1476.98	AVG >>	99.92%
06-Jan-24			0.11.0				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	474.93	250.0	99.94%				
Z452	479.05	245.1	99.92%				
Z453	475.33	223.9	99.91%				
Total	1429.30	AVG >>	99.92%				
07-Jan-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	479.71	250.0	99.93%				
Z452	486.25	251.4	99.92%				
Z453	481.91	230.7	99.91%				
Total	1447.87	AVG >>	99.92%				
08-Jan-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Jille	MT/day	ppm					
Z451			99.93%				
Z451 Z452	481.93	250.0					
	489.05	261.7	99.91%				
Z453 Total	483.31 1454.29	217.6 AVG >>	99.92% 99.92%				
, ocai	1434.29	AVU //	J3.3270				
09-Jan-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	488.80	250.0	99.94%				
Z452	494.73	236.4	99.93%				
Z453	492.94	216.0	99.92%				
Total	1476.47	AVG >>	99.93%				
10 log 21							
10-Jan-24	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Unit	CBA production		Salphar recovery Efficiency				
	MT/day	ppm					
7/51	402.24	250.0	00 030/				
Z451	483.04	250.0	99.93%				
Z451 Z452 Z453	483.04 493.83 492.19	250.0 223.2 197.7	99.93% 99.93% 99.93%				

			Culabua Passusa 500 i	26-Jan-24			Culabum Ba 50° :
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	429.92	250.0	99.95%	Z451	457.29	250.0	99.93%
Z452	433.77	241.1	99.91%	Z452	457.61	156.4	99.95%
Z453	430.49	197.0	99.93%	Z453	454.12	197.0	99.93%
Total	1294.18	AVG >>	99.93%	Total	1369.02	AVG >>	99.93%
i ocui	12510	7,1077	33.3370	rotar	1303.02	7,10077	33.3370
17-Jan-24				27-Jan-24			
	CRA production	SO2 emission	Sulphur Recovery Efficiency			SO2 emission	Sulphur Recovery Efficie
Unit	CBA production		Sulphul Recovery Efficiency	Unit	CBA production		Sulphul Recovery Lines
	MT/day	ppm			MT/day	ppm	
Z451	424.78	250.0	99.93%	Z451	423.36	250.0	99.95%
Z452	425.47	237.5	99.91%	Z452	425.16	176.3	99.94%
Z453	391.00	197.0	99.93%	Z453	421.16	197.0	99.93%
Total	1241.25	AVG >>	99.92%	Total	1269.67	AVG >>	99.94%
18-Jan-24				28-Jan-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	403.81	250.0	99.95%	Z451	374.41	250.0	99.95%
Z452	407.67	188.6	99.93%	Z452	376.33	193.5	99.93%
Z453			99.93%	Z453			99.93%
	403.81 1215.29	197.0 AVG >>	99.94%		373.10	197.0 AVG >>	99.93%
Total	1213.29	AVG >>	33.3470	Total	1123.85	AVG >>	39.93%
40							
19-Jan-24		500	Culphus Dog Fff:	29-Jan-24			Culphur D 500
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	383.52	250.0	99.94%	Z451	377.46	250.0	99.92%
Z452	388.04	248.1	99.90%	Z452	379.50	197.7	99.92%
Z453	382.58	197.0	99.93%	Z453	378.74	197.0	99.93%
Total	1154.14	AVG >>	99.92%	Total	1135.69	AVG >>	99.92%
20-Jan-24				30-Jan-24			
	CBA production	SO2 emission	Sulphur Recovery Efficiency		CBA production	SO2 emission	Sulphur Recovery Efficie
Unit			Suprial recovery Emelency	Unit	MT/day		odipilal fiecovery Erricic
7454	MT/day	ppm	00.000/	7454		ppm	00.020/
Z451	368.35	250.0	99.93%	Z451	443.88	250.0	99.93%
Z452	373.28	216.5	99.92%	Z452	447.01	202.2	99.93%
Z453	369.67	197.0	99.93%	Z453	443.84	197.0	99.93%
Total	1111.29	AVG >>	99.92%	Total	1334.73	AVG >>	99.93%
21-Jan-24				31-Jan-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
O.I.I.C	MT/day	ppm		O.I.I.C	MT/day	ppm	
Z451	402.29	250.0	99.92%	Z451	454.47	250.0	99.92%
Z452	407.96	200.9	99.93%	Z452			99.93%
Z453			99.93%	Z453	458.08	210.6	99.93%
	404.31	197.0			453.68	197.0	
Total	1214.56	AVG >>	99.92%	Total	1366.23	AVG >>	99.92%
22-Jan-24							
22-Jan-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	CBA production MT/day	SO2 emission ppm	Sulphur Recovery Efficiency				
	· · · · · · · · · · · · · · · · · · ·		Sulphur Recovery Efficiency 99.93%				
Unit	MT/day	ppm					
Unit Z451	MT/day 470.29	ppm 250.0	99.93%				
Z451 Z452 Z453	MT/day 470.29 474.58 468.29	ppm 250.0 206.5 197.0	99.93% 99.93% 99.93%				
Unit Z451 Z452	MT/day 470.29 474.58	ppm 250.0 206.5	99.93% 99.93%				
Z451 Z452 Z453 Total	MT/day 470.29 474.58 468.29	ppm 250.0 206.5 197.0	99.93% 99.93% 99.93%				
Z451 Z452 Z453 Total <b>23-Jan-24</b>	MT/day 470.29 474.58 468.29 1413.16	250.0 206.5 197.0 AVG >>	99.93% 99.93% 99.93% 99.93%				
Z451 Z452 Z453 Total	MT/day 470.29 474.58 468.29 1413.16	ppm 250.0 206.5 197.0 AVG >>	99.93% 99.93% 99.93%				
Z451 Z452 Z453 Total <b>23-Jan-24</b> Unit	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day	ppm 250.0 206.5 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total <b>23-Jan-24</b> Unit	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
Z451 Z452 Z453 Total <b>23-Jan-24</b> Unit Z451 Z452	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93%				
Z451 Z452 Z453 Total <b>23-Jan-24</b> Unit Z451 Z452 Z453	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61 436.80	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93%				
Z451 Z452 Z453 Total <b>23-Jan-24</b> Unit Z451 Z452	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93%				
Z451 Z452 Z453 Total <b>23-Jan-24</b> Unit Z451 Z452 Z453	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61 436.80	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93%				
Z451 Z452 Z453 Total <b>23-Jan-24</b> Unit Z451 Z452 Z453	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61 436.80	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93%				
Z451 Z452 Z452 Z453 Total <b>23-Jan-24</b> Unit Z451 Z452 Z453 Total	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61 436.80	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93%				
2451 Z452 Z453 Total 23-Jan-24 Unit Z451 Z452 Z453 Total	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61 436.80 1314.35	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93% 99.93%				
Unit  Z451  Z452  Z453  Total  23-Jan-24  Unit  Z451  Z452  Z453  Total  Z451  Z452  Z453  Total  24-Jan-24  Unit	MT/day 470.29 474.58 468.29 1413.16 CBA production MT/day 436.94 440.61 436.80 1314.35 CBA production MT/day	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>  SO2 emission ppm	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93%				
2451 2452 2453 Total  23-Jan-24 Unit 2451 2452 2453 Total  2452 2452 Unit 2451 2451	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 421.14	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>  SO2 emission ppm 250.0 203.9 203.9 203.9 203.9	99.93% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93%				
2451 2452 2453 Total 2451 2452 2453 Total 2452 2453 Total 2453 Total 2452 2453 Total 2452 2453 Total 2452 2552 2553 Total 2553 Total 2555 2555 2555 2555 2555 2555 2555 25	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 421.14	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>	99.93% 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
2451 Z452 Z453 Total 23-Jan-24 Unit Z451 Z452 Z453 Total 24-Jan-24 Unit 24-Jan-24 Unit	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 425.70 420.55	ppm   250.0   206.5   197.0   AVG >>	99.93% 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
2451 2452 2453 Total 2451 2452 2453 Total 2452 2453 Total 2453 Total 2452 2453 Total 2452 2453 Total 2452 2552 2553 Total 2553 Total 2555 2555 2555 2555 2555 2555 2555 25	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 421.14	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>	99.93% 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
2451 2452 2453 Total  23-Jan-24 Unit  2451 2452 2453 Total  2451 2452 2453 Total  24-Jan-24 Unit 2451 2452 2453 Total	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 425.70 420.55	ppm   250.0   206.5   197.0   AVG >>	99.93% 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
2451 Z452 Z453 Total 23-Jan-24 Unit Z451 Z452 Z453 Total 24-Jan-24 Unit 24-Jan-24 Unit	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 420.55 1267.40	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>  SO2 emission ppm 250.0 4VG >>  AVG >>  AVG >>	99.93% 99.93% 99.93% 99.93%  99.93%  Sulphur Recovery Efficiency  99.94% 99.93% 99.93%  Sulphur Recovery Efficiency  99.94% 99.93%  99.94% 99.94% 99.93%				
2451 2452 2453 Total  23-Jan-24 Unit  2451 2452 2453 Total  2451 2452 2453 Total  24-Jan-24 Unit 2451 2452 2453 Total	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 425.70 420.55	ppm   250.0   206.5   197.0   AVG >>	99.93% 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency				
2451 2452 2453 Total  23-Jan-24 Unit  2451 2452 2453 Total  24-Jan-24 Unit  2451 2452 2453 Total  2451 2452 2453 Total	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 420.55 1267.40	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>  SO2 emission ppm 250.0 4VG >>  AVG >>  AVG >>	99.93% 99.93% 99.93% 99.93%  99.93%  Sulphur Recovery Efficiency  99.94% 99.93% 99.93%  Sulphur Recovery Efficiency  99.94% 99.93%  99.94% 99.94% 99.93%				
2451 2452 2453 Total  23-Jan-24 Unit  2451 2452 2453 Total  24-Jan-24 Unit  2451 2452 2453 Total  2451 2452 2453 Total	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 421.14 425.70 420.55 1267.40  CBA production MT/day	ppm   250.0   206.5   197.0   AVG >>	99.93% 99.93% 99.93% 99.93%  99.93%  Sulphur Recovery Efficiency  99.94% 99.93% 99.93%  Sulphur Recovery Efficiency  99.94% 99.93%  99.94% 99.94% 99.93%				
Unit  Z451 Z452 Z453 Total  23-Jan-24 Unit  Z451 Z452 Z453 Total  24-Jan-24 Unit Z451 Z452 Z453 Total  Z451 Z452 Z453 Unit Z451 Z452 Z453 Z453 Z453 Z453 Z453 Z453 Z453 Z453	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 421.14 425.70 420.55 1267.40  CBA production MT/day 459.86	ppm 250.0 206.5 197.0 AVG >>  SO2 emission ppm 250.0 203.9 197.0 AVG >>  SO2 emission ppm 250.0 4VG >>  SO2 emission ppm 250.0 176.6 197.0 AVG >>  SO2 emission ppm 250.0 176.6 197.0 AVG >>	99.93% 99.93% 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.95% 99.94% 99.93% 99.94% 99.94%				
Unit  Z451 Z452 Z453 Total  23-Jan-24 Unit  Z451 Z452 Z453 Total  Z451 Z453 Total  Z451 Z452 Z453 Total  Z451 Z452 Z453 Total  Z451 Z452 Z453 Total  Unit  Unit  Unit  Unit	MT/day 470.29 474.58 468.29 1413.16  CBA production MT/day 436.94 440.61 436.80 1314.35  CBA production MT/day 421.14 425.70 420.55 1267.40  CBA production MT/day	ppm   250.0   206.5   197.0   AVG >>	99.93% 99.93% 99.93% 99.93%  Sulphur Recovery Efficiency 99.94% 99.93% 99.93% 99.93% Sulphur Recovery Efficiency  99.95% 99.94% 99.94% Sulphur Recovery Efficiency  Sulphur Recovery Efficiency				

01-Feb-24				11-Feb-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
OTTIC	MT/day	ppm	, , , , , ,	Offic	MT/day	ppm	,,
Z451	461.64	250.0	99.93%	Z451	525.57	250.0	99.92%
Z452	465.40	234.8	99.92%	Z452	526.25	219.0	99.93%
Z453				Z453			99.93%
	462.40	197.0	99.94%		524.57	197.0	
Total	1389.44	AVG >>	99.93%	Total	1576.39	AVG >>	99.93%
02-Feb-24				12-Feb-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	475.44	250.0	99.92%	Z451	506.66	250.0	99.91%
Z452	479.31	214.9	99.92%	Z452	508.15	217.6	99.93%
Z453	473.27			Z453			99.92%
Total	1428.02	197.0 AVG >>	99.91% 99.92%	Total	506.23 1521.04	197.0 AVG >>	99.92%
Total	1120.02	7.0077	33.32.70	10001	1321.01	7,7077	33.32.70
03-Feb-24				13-Feb-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	410.45	250.0	99.93%	Z451	503.64	250.0	99.89%
Z452	414.16	209.6	99.92%	Z452	505.37	217.1	99.93%
Z453	408.83	197.0	99.93%	Z453	504.29	197.0	99.90%
Total	1233.43	AVG >>	99.93%	Total	1513.30	AVG >>	99.91%
04-Feb-24				14-Feb-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	387.24	250.0	99.92%	Z451	536.02	250.0	99.93%
Z452	387.59	208.4	99.92%	Z452	541.02	232.4	99.92%
Z453	388.82	197.0	99.90%	Z453	544.74	197.0	99.94%
Total	1163.65	AVG >>	99.91%	Total	1621.77	AVG >>	99.93%
05-Feb-24			56	15-Feb-24			0.11.0
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	399.53	250.0	99.92%	Z451	534.08	250.0	99.90%
Z452	402.55	205.1	99.92%	Z452	540.28	222.9	99.93%
Z453	400.04	197.0	99.94%	Z453	543.70	197.0	99.91%
Total	1202.12	AVG >>	99.93%	Total	1618.05	AVG >>	99.91%
06-Feb-24			Culabus Danasas Efficiency				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	407.45	250.0	99.93%				
Z452	413.04	221.4	99.92%				
Z453	412.27	197.0	99.93%				
Total	1232.76	AVG >>	99.93%				
07-Feb-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	MT/day 421.68	250.0	99.91%				
Z452			99.91% 99.94%				
	421.68 423.61 423.83	250.0 174.3 197.0	99.94% 99.94%				
Z452 Z453	421.68 423.61	250.0 174.3	99.94%				
Z452 Z453 Total	421.68 423.61 423.83 1269.11	250.0 174.3 197.0	99.94% 99.94%				
Z452 Z453 Total <b>08-Feb-24</b>	421.68 423.61 423.83 1269.11	250.0 174.3 197.0 AVG >>	99.94% 99.94% 99.93%				
Z452 Z453 Total	421.68 423.61 423.83 1269.11	250.0 174.3 197.0 AVG >>	99.94% 99.94%				
Z452 Z453 Total <b>08-Feb-24</b> Unit	421.68 423.61 423.83 1269.11 CBA production MT/day	250.0 174.3 197.0 AVG >>	99.94% 99.94% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total <b>08-Feb-24</b> Unit	421.68 423.61 423.83 1269.11 CBA production MT/day 402.26	250.0 174.3 197.0 AVG >> SO2 emission ppm 250.0	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94%				
Z452 Z453 Total <b>08-Feb-24</b> Unit Z451 Z452	421.68 423.61 423.83 1269.11 CBA production MT/day 402.26 403.91	250.0 174.3 197.0 AVG >> SO2 emission ppm 250.0 139.8	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95%				
Z452 Z453 Total <b>08-Feb-24</b> Unit Z451 Z452 Z453	421.68 423.61 423.83 1269.11 CBA production MT/day 402.26 403.91 402.35	250.0 174.3 197.0 AVG >> SO2 emission ppm 250.0 139.8 197.0	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90%				
Z452 Z453 Total <b>08-Feb-24</b> Unit Z451 Z452 Z453	421.68 423.61 423.83 1269.11 CBA production MT/day 402.26 403.91	250.0 174.3 197.0 AVG >> SO2 emission ppm 250.0 139.8	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95%				
Z452 Z453 Total <b>08-Feb-24</b> Unit Z451 Z452 Z453 Total	421.68 423.61 423.83 1269.11 CBA production MT/day 402.26 403.91 402.35	250.0 174.3 197.0 AVG >> SO2 emission ppm 250.0 139.8 197.0	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90%				
Z452 Z453 Total 08-Feb-24 Unit Z451 Z452 Z453 Total 09-Feb-24	421.68 423.61 423.83 1269.11 CBA production MT/day 402.26 403.91 402.35 1208.51	250.0 174.3 197.0 AVG >> SO2 emission ppm 250.0 139.8 197.0 AVG >>	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90%				
Z452 Z453 Total <b>08-Feb-24</b> Unit Z451 Z452 Z453 Total	421.68 423.61 423.83 1269.11 CBA production MT/day 402.26 403.91 402.35 1208.51	250.0 174.3 197.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93%				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day	250.0 174.3 197.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit Z451 Z453	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99	250.0 174.3 177.0 177.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93% Sulphur Recovery Efficiency				
Z452 Z453 Total  08-Feb-24 Unit Z451 Z452 Z453 Total  09-Feb-24 Unit Z451 Z452	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31	250.0 174.3 177.0 177.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0	99.94% 99.94% 99.93%  Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93%  Sulphur Recovery Efficiency				
Z452 Z453 Total 08-Feb-24 Unit Z451 Z452 Z453 Total 09-Feb-24 Unit Z451 Z452 Z453	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31 415.49	250.0 174.3 197.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93% Sulphur Recovery Efficiency 99.95% 99.95%				
Z452 Z453 Total 08-Feb-24 Unit Z451 Z452 Z453 Total 09-Feb-24 Unit Z451 Z452 Z453	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31	250.0 174.3 177.0 177.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0	99.94% 99.94% 99.93%  Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93%  Sulphur Recovery Efficiency				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit  Z451 Z452 Z453 Total  Z451 Z452 Z453 Total	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31 415.49	250.0 174.3 197.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93% Sulphur Recovery Efficiency 99.95% 99.95%				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit  Z451 Z452 Z453 Total  Z451 Z452 Z453 Total	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31 415.49	250.0 174.3 197.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0	99.94% 99.94% 99.93% Sulphur Recovery Efficiency 99.94% 99.95% 99.90% 99.93% Sulphur Recovery Efficiency 99.95% 99.95%				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit  Z451 Z452 Z453 Total  1451 Z452 Z453 Total	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31 415.49 1246.79	250.0 174.3 177.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0 AVG >>	99.94% 99.94% 99.93%  Sulphur Recovery Efficiency  99.94% 99.95% 99.90% 99.93%  Sulphur Recovery Efficiency  99.92% 99.95% 99.91% 99.93%				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit  Z451 Z452 Z453 Total  10-Feb-24 Unit	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 1246.79  CBA production	250.0 174.3 197.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0 AVG >>	99.94% 99.94% 99.93%  Sulphur Recovery Efficiency  99.94% 99.95% 99.90% 99.93%  Sulphur Recovery Efficiency  99.92% 99.95% 99.91% 99.93%				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit  Z451 Z452 Z453 Total  10-Feb-24	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31 415.49 1246.79  CBA production MT/day 533.68	250.0 174.3 177.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0 138.0 177.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0 AVG >>	99.94% 99.94% 99.93%  Sulphur Recovery Efficiency  99.94% 99.95% 99.90%  Sulphur Recovery Efficiency  99.92% 99.95% 99.91% 99.93%  Sulphur Recovery Efficiency  99.93%				
Z452 Z453 Total  08-Feb-24 Unit  Z451 Z452 Z453 Total  09-Feb-24 Unit  Z451 Z452 Z453 Total  10-Feb-24 Unit  10-Feb-24 Unit	421.68 423.61 423.83 1269.11  CBA production MT/day 402.26 403.91 402.35 1208.51  CBA production MT/day 414.99 416.31 415.49 1246.79  CBA production MT/day	250.0 174.3 197.0 AVG >>  SO2 emission ppm 250.0 139.8 197.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0 AVG >>  SO2 emission ppm 250.0 138.0 197.0 AVG >>	99.94% 99.94% 99.93%  Sulphur Recovery Efficiency  99.94% 99.95% 99.90% 99.93%  Sulphur Recovery Efficiency  99.92% 99.95% 99.91% 99.93%  Sulphur Recovery Efficiency				

16-Feb-24			Culabum Danasum Efficiensu	26-Feb-24			Culabua Bassus Efficie
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficier
	MT/day	ppm			MT/day	ppm	
Z451	542.72	250.0	99.91%	Z451	450.22	250.0	99.92%
Z452	553.98	221.0	99.93%	Z452	454.59	173.3	99.94%
Z453	567.36	197.0	99.91%	Z453	455.03	197.0	99.91%
Total	1664.06	AVG >>	99.92%	Total	1359.84	AVG >>	99.92%
47 Fab 04				27 Fab 24			
17-Feb-24	CD4 I II		Culphus Dogovoni Efficionav	27-Feb-24			Culphus Dogovona Efficio
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	566.20	250.0	99.90%	Z451	446.66	250.0	99.93%
Z452	567.48	248.3	99.92%	Z452	448.00	184.1	99.94%
Z453	572.58	197.0	99.89%	Z453	450.72	197.0	99.91%
Total	1706.26	AVG >>	99.90%	Total	1345.38	AVG >>	99.93%
. ocu	1700.20	7.17077	33.30 %	rotar	15 15.50	7.7077	3313370
18-Feb-24				28-Feb-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	514.74	250.0	99.92%	Z451	446.25	250.0	99.92%
Z452	514.39	234.7	99.92%	Z452	451.94	212.9	99.92%
Z453	513.33	197.0	99.93%	Z453	452.21	197.0	99.90%
Total	1542.45	AVG >>	99.92%	Total	1350.39	AVG >>	99.91%
19-Feb-24				29-Feb-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm	· 1		MT/day	ppm	
Z451	501.61	250.0	99.92%	Z451	450.72	250.0	99.91%
Z452				Z451 Z452			
	503.73	208.1	99.93%		453.99	212.9	99.92%
Z453	502.69	197.0	99.92%	Z453	455.86	197.0	99.93%
Total	1508.03	AVG >>	99.92%	Total	1360.57	AVG >>	99.92%
20-Feb-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Offic	MT/day	ppm	, ,				
7454	. ,		00.048/				
Z451	520.89	250.0	99.91%				
Z452	523.30	231.4	99.92%				
Z453	520.11	197.0	99.93%				
Total	1564.29	AVG >>	99.92%				
21-Feb-24							
	CD4 I II		Culphus Dosovoni Efficionav				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	514.15	250.0	99.93%				
Z452	514.73	205.5	99.93%				
Z453	514.53	197.0	99.94%				
Total	1543.41	AVG >>	99.93%				
Total	1343.41	AVG >>	99.9370				
22-Feb-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	468.14	250.0	99.93%				
Z452	472.06	205.5	99.93%				
Z453	471.66	197.0	99.90%				
Total	1411.87	AVG >>	99.92%				
23-Feb-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
3	MT/day	ppm	· ' '				
7/51			00 049/				
Z451	455.99	250.0	99.94%				
Z452	459.51	205.5	99.93%				
Z453	460.32	197.0	99.95%				
Total	1375.83	AVG >>	99.94%				
24-Fob 24							
24-Feb-24	CDA ' ··	603 - 1 1	Sulphur Pocovoni Efficier				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	460.90	250.0	99.93%				
	464.20	189.1	99.94%				
Z452	465.18	197.0	99.93%				
Z452							
Z453	1390.28	AVG >>	99.93%				
	1550.20						
Z453	1530.20						
Z453							
Z453 Total <b>25-Feb-24</b>		SO2 emission	Sulphur Recovery Efficiency				
Z453 Total	CBA production		Sulphur Recovery Efficiency				
Z453 Total <b>25-Feb-24</b> Unit	CBA production MT/day	ppm					
Z453 Total <b>25-Feb-24</b> Unit Z451	CBA production MT/day 454.97	ppm 250.0	99.95%				
Z453 Total <b>25-Feb-24</b> Unit Z451 Z452	CBA production MT/day 454.97 459.13	ppm 250.0 145.2	99.95% 99.95%				
Z453 Total <b>25-Feb-24</b> Unit Z451	CBA production MT/day 454.97	ppm 250.0	99.95%				

			ORING OF SO <sub>2</sub> EMISS				
01-Mar-24				11-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Effic
	MT/day	ppm			MT/day	ppm	
Z451	421.51	250.0	99.91%	Z451	421.42	250.0	99.90%
Z452	422.55	212.9	99.93%	Z452	423.47	177.3	99.94%
Z453	422.91	197.0	99.94%	Z453	423.41	197.0	99.94%
Total	1266.97	AVG >>	99.93%	Total	1268.30	AVG >>	99.93%
02-Mar-24				12-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Effic
	MT/day	ppm			MT/day	ppm	
Z451	421.42	250.0	99.90%	Z451	403.26	250.0	99.91%
Z452	419.50	212.9	99.94%	Z452	404.53	179.1	99.93%
Z453	424.82	197.0	99.94%	Z453	402.94	197.0	99.94%
Total	1265.74	AVG >>	99.93%	Total	1210.73	AVG >>	99.93%
00 11 04				40.1404			
03-Mar-24	CBA production	SO2 emission	Sulphur Recovery Efficiency	13-Mar-24	CRA production	SO2 emission	Sulphur Recovery Effic
Unit	CBA production		Sulphur recovery Efficiency	Unit	CBA production		Sulphur Recovery Effici
7451	MT/day	ppm	00.000/	7451	MT/day	ppm	00.010/
Z451	432.04	250.0	99.90%	Z451 Z452	395.05	250.0	99.91%
Z452	432.61	220.3	99.94%		396.30	180.7	99.93%
Z453 Total	437.46 1302.11	197.0 AVG >>	99.94% 99.93%	Z453 Total	393.55 1184.90	197.0 AVG >>	99.94% 99.93%
. ocui	1302.11		55.5570	10001	1104.50		55.5570
04-Mar-24				14-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Effic
7451	MT/day	ppm	00.047	3.51	MT/day	ppm	22 222
Z451 Z452	432.19	250.0	99.91%	Z451 Z452	404.26	250.0	99.90%
	432.23	214.5	99.93%		410.05	141.7	
Z453	438.55	197.0	99.94%	Z453	415.31	197.0	99.94%
Total	1302.97	AVG >>	99.93%	Total	1229.62	AVG >>	99.93%
05-Mar-24				15-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Effic
Offic	MT/day	ppm	,,	Offic	MT/day	ppm	
Z451	456.50	250.0	99.91%	Z451	432.01	250.0	99.90%
Z452	455.35	216.9	99.93%	Z452	445.35	149.9	99.95%
Z453	458.40	197.0	99.94%	Z453	459.98	197.0	99.94%
Total	1370.24	AVG >>	99.93%	Total	1337.34	AVG >>	99.93%
06-Mar-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	463.02	250.0	99.91%				
Z452	461.19	212.9	99.93%				
Z453	460.17	197.0	99.94%				
Total	1384.38	AVG >>	99.93%				
07-Mar-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	470.93	250.0	99.91%				
Z452	470.03	211.3	99.94%				
Z453	468.18	197.0	99.94%				
Total	1409.15	AVG >>	99.93%				
08-Mar-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
UIIIL	MT/day	ppm					
Z451	487.07	250.0	99.91%				
Z452	484.47	206.0	99.93%				
Z453	487.72	197.0	99.94%				
Total	1459.26	AVG >>	99.93%				
09-Mar-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
7451	MT/day	ppm	00.0127				
Z451	474.98	250.0	99.91%				
Z452	474.39	178.1	99.94%				
Z453 Total	475.59 1424.96	197.0 AVG >>	99.94% 99.93%				
I ULdI	1424.90	AVU >>	J9. Y270				
10-Mar-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	437.76	250.0	99.90%				
		179.9	99.94%				
Z452	440.74	1/9.9	99.94%				
Z452 Z453	440.74	197.0	99.94%				

16-Mar-24	GD4 :		Culphus Doc Fff.	26-Mar-24			Culphus P 500
Unit	CBA production MT/day	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production MT/day	SO2 emission	Sulphur Recovery Efficie
Z451	468.97	ppm 250.0	99.91%	Z451	494.24	ppm 250.0	99.91%
Z452	497.98	235.1	99.92%	Z452	494.24	250.0	99.94%
Z453	528.42	197.0	99.94%	Z453	499.95	197.0	99.94%
Total	1495.37	AVG >>	99.92%	Total	1485.98	AVG >>	99.93%
17-Mar-24				27-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	500.91	250.0	99.91%	Z451	471.84	250.0	99.91%
Z452	499.47	214.1	99.93% 99.94%	Z452	471.19	223.8	99.93%
Z453	501.97	197.0		Z453	474.84 1417.88	197.0	99.94% 99.93%
Total	1502.34	AVG >>	99.93%	Total	1417.88	AVG >>	99.93%
18-Mar-24				28-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	493.50	250.0	99.90%	Z451	431.38	250.0	99.91%
Z452	492.69	144.9	99.94%	Z452	432.53	200.0	99.93%
Z453	493.73	197.0	99.94%	Z453	430.70	197.0	99.94%
Total	1479.93	AVG >>	99.93%	Total	1294.62	AVG >>	99.93%
10 Mar 21				20 84 04			
19-Mar-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	29-Mar-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
OTIIL	MT/day	ppm	,	Unit	MT/day	ppm	
Z451	482.87	250.0	99.91%	Z451	397.06	250.0	99.91%
Z452	481.20	84.1	99.93%	Z452	397.91	200.0	99.93%
Z453	483.52	197.0	99.94%	Z453	398.22	197.0	99.94%
Total	1447.59	AVG >>	99.93%	Total	1193.19	AVG >>	99.93%
20-Mar-24				30-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	470.38	250.0	99.91%	Z451	415.58	250.0	99.91%
Z452 Z453	468.79	246.8	99.92% 99.94%	Z452 Z453	411.29	250.0	99.92% 99.94%
Total	474.32 1413.49	197.0 AVG >>	99.92%	Total	413.06 1239.93	197.0 AVG >>	99.92%
Total	1413.47	AVG	33.3270	Total	1233.33	AVG >>	33.3270
21-Mar-24				31-Mar-24			
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency	Unit	CBA production	SO2 emission	Sulphur Recovery Efficie
	MT/day	ppm			MT/day	ppm	
Z451	491.37	250.0	99.91%	Z451	399.20	250.0	99.91%
Z452	491.02	269.5	99.91%	Z452	398.27	201.6	99.93%
Z453	496.75	197.0	99.94%	Z453	398.63	197.0	99.94%
Total	1479.15	AVG >>	99.92%	Total	1196.10	AVG >>	99.93%
22-Mar-24							
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
	MT/day	ppm					
Z451	498.25	250.0	99.91%				
Z452	501.45	254.5	99.93%				
Z453	502.69	197.0	99.94%				
Total	1502.39	AVG >>	99.93%				
22 Mar 24							
23-Mar-24 Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Jinc	MT/day	ppm	,,				
Z451	438.62	250.0	99.91%				
Z452	435.85	200.8	99.93%				
Z453	439.85	197.0	99.94%				
Total	1314.33	AVG >>	99.93%				
24-Mar-24	CDA ' · ·	603	Sulphur Pacayon, Efficiency				
Unit	CBA production	SO2 emission	Sulphur Recovery Efficiency				
Z451	MT/day	ppm 250.0	99.91%				
Z451 Z452	433.71 430.77	250.0 200.8	99.93%				
Z452 Z453	430.77	197.0	99.93%				
Total	1301.27	197.0 AVG >>	99.92%				
25-Mar-24	CBA production	SO2 emission	Sulphur Recovery Efficiency				
25-Mar-24 Unit		nnm					
	MT/day	ppm					
Unit Z451		250.0	99.91%				
Unit Z451 Z452	MT/day 442.79 440.85	250.0 200.8	99.93%				
Unit Z451	MT/day 442.79	250.0					

### Reliance Industries Limited (Refinery Division), Jamnagar AMBIENT AIR QUALITY MONITORING (1st October '2023 to 31st March '2024)

LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE
<b>POLLUTANT - PM 2.5 (μg/m3)</b>			
RRTF Control Building	19.0	34.0	27.9
SSO STP	19.0	27.0	21.6
Liquid Rail Gantry	21.0	34.0	28.0
ETP	19.0	34.0	28.3
SOLID Parking Area	19.0	34.0	27.0
Central LAB	19.0	29.0	22.3
POLLUTANT - PM 10 (µg/m3)			
RRTF Control Building	40.0	58.0	48.6
SSO STP	40.0	48.0	43.2
Liquid Rail Gantry	41.0	54.0	48.6
ETP	43.0	53.0	48.7
SOLID Parking Area	40.0	53.0	48.8
Central LAB	40.0	47.0	43.2
POLLUTANT - SO2 (μg/m3)	10.0	17.0	13.2
RRTF Control Building	12.0	25.0	17.7
SSO STP	10.0	18.0	12.4
Liquid Rail Gantry	10.0	24.0	16.8
ETP	10.0	24.0	17.1
SOLID Parking Area	10.0	24.0	16.3
Central LAB	10.0	18.0	12.6
POLLUTANT – NOx (µg/m3)	10.0	16.0	12.0
RRTF Control Building	12.0	20.0	24.0
SSO STP	13.0 16.0	30.0 25.0	24.0
Liquid Rail Gantry			20.5
ETP	13.0	29.0	24.1
SOLID Parking Area	19.0	29.0	24.0
Central LAB	18.0	29.0	23.4
	16.0	25.0	20.4
POLLUTANT – CO (mg/m3)	1 11	1.76	1.21
RRTF Control Building	1.11	1.76	1.31
SSO STP	1.07	1.66	1.34
Liquid Rail Gantry	1.09	1.71	1.34
ETP	1.05	1.56	1.32
SOLID Parking Area	1.10	1.65	1.34
Central LAB	1.04	1.72	1.31
POLLUTANT - NH3 (μg/m3)			
RRTF Control Building	10.0	19.0	13.1
SSO STP	10.0	17.0	12.5
Liquid Rail Gantry	10.0	17.0	13.1
ETP	10.0	17.0	12.5
SOLID Parking Area	10.0	17.0	12.9
Central LAB	10.0	16.0	12.0
POLLUTANT - Benzene (μg/m3)			<b>n</b>
RRTF Control Building	BDL	BDL	BDL
SSO STP	BDL	BDL	BDL
Liquid Rail Gantry	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 October '2023 to 31st March '2024)

LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE
POLLUTANT - PM 2.5 (μg/m3)			
Sulphur Load Office	21.0	34.0	29.1
ZETP	22.0	33.0	28.4
Sulphur Recovery Unit	23.0	33.0	28.7
RTF	18.0	27.0	21.5
POLLUTANT – PM 10 (μg/m3)			
Sulphur Load Office	45.0	54.0	49.8
ZETP	42.0	54.0	48.8
Sulphur Recovery Unit	43.0	53.0	48.8
RTF	40.0	48.0	42.6
POLLUTANT - SO <sub>2</sub> (μg/m3)			
Sulphur Load Office	12.0	24.0	18.5
ZETP	10.0	24.0	17.4
Sulphur Recovery Unit	10.0	24.0	16.2
RTF	10.0	18.0	12.6
POLLUTANT – NO2 (μg/m3)			
Sulphur Load Office	18.0	29.0	25.0
ZETP	19.0	29.0	25.3
Sulphur Recovery Unit	18.0	29.0	24.3
RTF	16.0	26.0	20.5
POLLUTANT - NH3 (μg/m3)			
Sulphur Load Office	10.0	17.0	13.4
ZETP	1.2	17.0	12.9
Sulphur Recovery Unit	10.0	17.0	12.6
RTF	10.0	16.0	12.6
POLLUTANT – CO (mg/m3)			
Sulphur Load Office	1.05	1.76	1.31
ZETP	1.13	1.76	1.36
Sulphur Recovery Unit	1.01	1.70	1.32
RTF	1.04	1.75	1.36
POLLUTANT – Benzene (µg/m3)			
Sulphur Load Office	BDL	BDL	BDL
ZETP	BDL	BDL	BDL
Sulphur Recovery Unit	BDL	BDL	BDL
RTF	BDL	BDL	BDL

Note: 1. Grab sampling for  ${\rm CO}$ ; 2. BDL: Below Detectable level

### Reliance Industries Limited. Jamnagar (C2 Complex)

# AMBIENT AIR QUALITY MONITORING (1st October '2023 to 31st March '2024)

LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE
POLLUTANT – PM2.5 (μg/m3)			
LC5	21.0	33.0	28.2
LC7	23.0	33.0	28.4
Nr ETP	21.0	33.0	28.6
FWP	23.0	33.0	28.3
POLLUTANT – PM10 (μg/m3)			
LC5	40.0	53.0	48.3
LC7	44.0	53.0	49.4
Nr ETP	42.0	53.0	49.2
FWP	44.0	53.0	49.3
POLLUTANT - SO2 (μg/m3)			
LC5	10.0	24.0	17.3
LC7	10.0	24.0	17.1
Nr ETP	12.0	24.0	18.2
FWP	12.0	24.0	17.3
POLLUTANT – NO2 (μg/m3)			
LC5	19.0	29.0	24.4
LC7	19.0	29.0	24.4
Nr ETP	19.0	29.0	26.0
FWP	20.0	29.0	25.1
POLLUTANT - NH3 (μg/m3)			
LC5	10.0	16.0	12.7
LC7	10.0	16.0	12.8
Nr ETP	10.0	17.0	12.8
FWP	10.0	16.0	12.2
POLLUTANT - CO (mg/m3)			
LC5	1.06	1.70	1.35
LC7	1.03	1.66	1.34
Nr ETP	1.13	1.70	1.38
FWP	1.03	1.70	1.35
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 October '2023 to 31st March '2024)

LOCATION	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	
POLLUTANT – PM2.5 (μg/m3)				
Gagva	14	64	39	
MTF	23	59	41	
Padana	24	66	41	
Township	16	48	31	
POLLUTANT – PM10 (μg/m3)				
Gagva	22	87	56	
MTF	31	82	61	
Padana	35	92	59	
Township	22	70	46	
POLLUTANT - SO2 (μg/m3)				
Gagva	5	65	11	
MTF	5	21	9	
Padana	2	72	12	
Township	3	41	9	
POLLUTANT – NO2 (μg/m3)				
Gagva	0.06	14	5	
MTF	0.36	16	6	
Padana	0.11	14	5	
Township	0.08	9	3	
POLLUTANT - NH3 (μg/m3)				
Gagva	4.09	8.82	5.40	
MTF	4.46	7.30	5.47	
Padana	3.78	12.81	5.09	
Township	4.31	7.03	5.48	
POLLUTANT - CO (mg/m3)				
Gagva	0.01	0.45	0.26	
MTF	0.03	0.45	0.26	
Padana	0.01	0.52	0.29	
Township	0.01	0.63	0.21	
POLLUTANT – Ozone (μg/m3)				
Gagva	7	58	25	
MTF	12	68	26	
Padana	10	55	27	
Township	8	77	33	

Note: Sampling Time:- 24 hrs avg.

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

(1st October '2023 to 31st March '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	рН		7.4	7.7	7.52
2	Suspended Solids	mg/l	10	13	11.83
3	Biochemical Oxygen Demand	mg/l	5.0	8.0	6.67
4	Chemical Oxygen Demand	mg/l	48.0	56.0	51.83
5	Oil & Grease	mg/l	2.2	2.6	2.37
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	9.5	9.7	9.62
10	TKN	mg/l	11.8	13.8	12.57
11	Phosphorous (as P)	mg/l	1.1	1.4	1.20
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,

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

2) N.D.: Not Detectable

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

(1st October '2023 to 31st March '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	Temperature	oC	27	32	29.5
2	рН		7.9	8.2	8.07
3	Total Dissolved Solids	mg/l	58876	59048	58968.17
4	Total Suspended Solids	mg/l	10.0	14.0	12.50
5	Biochemical Oxygen Demand	mg/l	6.0	8.0	7.17
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	10.4	10.8	10.57
12	TKN	mg/l	12.6	13.5	13.05
13	Phosphorous (as P)	mg/l	1.0	1.3	1.15
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.

<sup>---\*</sup> 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 October '2023 to 31st March '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	рН		7.5	7.7	7.60
2	Total Suspended Solids	mg/l	10.0	15.0	13.00
3	Biochemical Oxygen Demand	mg/l	6.0	8.0	6.83
4	Chemical Oxygen Demand	mg/l	41.0	48.0	43.83
5	Oil & Grease	mg/l	1.2	1.6	1.40
6	Phenols (as C6H5OH)	mg/l	0.11	0.13	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	9.5	9.8	9.65
10	TKN	mg/l	10.8	11.8	11.32
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.

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,

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

(1st October '2023 to 31st March '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	Temperature	<sup>0</sup> C	28	36	29.5
2	рН		8.0	8.2	8.08
3	Total Dissolved Solids	mg/l	58976	59267	59111
4	Total Suspended Solids	mg/l	10.0	15.0	12.67
5	Biochemical Oxygen Demand	mg/l	6.0	8.0	6.83
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	10.7	10.47
12	TKN	mg/l	12.8	14.2	13.35
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.

<sup>---\*</sup> 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 October '2023 to 31st March '2024)

Sr.No.	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	pН		7.4	7.6	7.52
2	Total Suspended Solids	mg/l	10	14	11.83
3	Biochemical Oxygen Demand	mg/l	6.0	8.0	7.00
4	Chemical Oxygen Demand	mg/l	38.0	46.0	42.33
5	Phenols (as C6H5OH)	mg/l	0.1	0.1	0.12
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	0.6	0.42

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

# 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	50	55	44	48
2	Storm water pond no. 2 near fire station	45	57	49	52
3	Near ETP	58	64	53	59
4	Near Main Gate	54	67	48	51
5	Near Back Boundary Wall (PP Gate)	51	59	50	54
6	In front of Sulphur loading plant	56	65	51	56
7	Near flare stack	51	59	54	59

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

Sr. No.	Area /Location	Noise Level (dBA) Day-time			vel (dBA) t-time
		Minimum Value	Maximum Value	Minimum Value	Maximum Value
1	Near Cargo Gate 1	54	57	38	47
2	Near MMC, Avenue L	51	55	41	48
3	Near PP Ware House, Avenue L	59	64	50	55
4	Near Pond 7	57	63	41	47
5	Near Cargo Gate -2	55	67	45	50
6	Near Sulfur Gate	56	64	47	52
7	Near Clean Fuel Project Nr. Avenue F	55	65	50	56

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

Sr. No.	Area /Location	Noise Level (dBA) Day-time			vel (dBA) :-time
		Minimu m Value	Maximum Value	Minimum Value	Maximu m Value
	Px4 Complex				
1	SO	56	61	50	53
2	в/н ст	53	57	53	55
3	Scarp Bin	52	54	46	50
4	Crystalliser	55	57	53	55
	C2 Complex				
1	LC 5	50	53	44	46
2	LC 7	45	48	39	43
3	ЕТР	56	58	47	51
4	FWPH	53	57	44	46

## Reliance Industries Ltd. Jamnagar Marine Water Quality Analysis Report

(1st October '2023 to 31st March '2024)

Sample location : Samples near Diffuser (Sea water)

Parameters	UOM	A	Sampl Above Dif			Sample 10 tream of I		Sample 100 m Downstream of Diffuser			
		Min	Max	AVG	Min	Max	AVG	Min	Max	AVG	
рН	-	8.1	8.2	8.2	8.2	8.2	8.2	7.9	8.2	8.1	
Conductivity	μS/cm	55670	57680	56200	55285	56630	55854	55380	55890	55620	
Total Dissolved Solids (TDS)	mg/l	36312	55760	37305.5	35925	39210	37824	36427	38410	37857	
Total Suspended Solids (TSS)	mg/l	3.8	4.5	4.08	3.5	4.4	4.1	3.1	4.1	3.83	
Chemical Oxygen Demand (COD)	mg/l	9	19	15	13	18	15	11	16	12.95	
Biochemical Oxygen Demand (BOD)	mg/l	6	14	6	7	8	7.5	5.5	7	6.25	
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

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

<sup>\*</sup>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 October '2023 to 31st March '2024)

Sr.No	PARAMETERS	Unit	Min Value	Max Value	Average Value
1	рН		7.7	7.9	7.82
2	Total Suspended Solids	mg/l	10	14	12.50
3	Biochemical Oxygen Demand	mg/l	5.0	8.0	6.17
4	Chemical Oxygen Demand*	mg/l	*	*	*
5	Oil & Grease	mg/l	2.1	2.8	2.48
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.

**GROUND WATER SAMPLE-WELLS** RELIANCE INDUSTRIES LTD., JAMNAGAR Ref.: MIJEMS/GURIL/JAW/12/2023 Group Date of Sampling : 20/12/2023 RPLS | RPLT | RPLS | RPL16 | RPL-11 | RPL-15 | FPL-16 | RPL-12 | RPL-22 | RPL-24 | RPL-21 | Resolut | Setalus Megrugum Megropar Manachikan Denschikan RPL4 Parameters 4 Unit Office & Laboratory: W-405, Robota MDC, TTC Industrial Area, New Marriori -409 701.

Phone: T2080979 92 / 93 / 94 / 95 • Website: www.netsi-india.com • E-mail: ems@reteinn.

office: Liberty Building, 3kd Floor, Sir Vithaldes Thackersey Marg. (New Martin Lines), Marrial. Company 7.8 7.5 7.7 7.6 7.5 7.6 7.4 7.5 7.6 7.7 7.4 7.7 7.5 7.4 7.5 7.7 7.0 7.5 2 Colour Co.Pt.Scale Columbia de Coloured Carlarunters Colourte Cohortess Colourtes Colourtens Colombins Coloantes 3 TDS mgt m762 788 846 833 838 1,112 880 714 728 717 875 762 774 642 832 795 728 4 Total ammonia - N mgt 4.5 4.8 4.5 4.0 4.7 45 4.7 4.6 4.7 4.7 4.8 4.0 4.5 4.0 4.5 4.5 4.8 4.5 5 000 mgf <10 <10 <10 <10 410 <10 410 +10 <10 <10 <10 410 <10 <10 <10 <10 <10 e Chinnas-Ci 7gm 235 720 734 231 228 240 238 355 260 230 230 224 255 258 212 220 224 234 7 Total Hardness (as Caco3) mgil 131 132 120 132 126 132 133 146 122 117 120 125 128 122 116 118 215 122 fil Sulphate (as SO4) mgš 56 58 12 54 56 58 55 96 52 55 58 58 56 55 58 54 58 54 9 Nitrate-NO3 mgt. 14 12 10 12 10 12 10 12 12 10 12 14 12 10 14 10 10 10 10 Fluoride-F mgt 0.6 0.7 0.5 0.6 0.5 0.6 0.5 0.6 0.4 0.6 0.5 0.7 0.5 0.6 0.5 0.6 0.6 0.6 11 Non-Fe mg/l ND ND. ND NO ND ND ND ND ND MD ND ND NO ND. MD ND ND: ND 12 Sulphide (sa H2S) mg/l MD MD ND NO ND NO ND ND ND ND ND ND ND ND: MD ND MD-ND 13 Calcium-Ca rigit 155 148 145 154 152 157 155 194 100 142 147 138 228 216 152 170 186 174 14 Magnesium-Mg 125 122 125 128 133 130 170 152 152 120 142 144 mgt 125 126 120 115 185 140 15 Copper-Cu mgt ND ND ND NO ND ND ND ND ND ND ND ND ND ND ND ND ND ND 16 Nickel - Ni MD ND mgt ND NO ND NO ND ND ND ND ND ND ND: ND ND ND 17 Lead - Pb MD ND. ND NO ND ND ND ND ND ND MD ND NO ND: ND ND ND ND mol 18 Cyanide - CN ND ND mg/i ND ND NO ND ND ND ND: ND ND ND NO ND ND ND ND ND 19 OII & Grease ND ND. ND ND: ND: NO MD ND MD ND ND ND ND ND ND ND mg/l ND. ND: 20 Phenal ND ND ND ND ND ND. ND ND ND ND ND MD ND Netel (India) Limite mg/l ND ND for NETEL (INDIA) LTD humbai - 400 BIRBAHADUR SINGH (Project Incharge) (Environment Chemist)

## Expenditure for Environmental Protection Measures

Sr. No.	Reliance Jamnagar Manufacturing Complex	*Expenditure Amount (Rs.)
1	DTA Refinery	7,32,32,016
2	SEZ Refinery	8,71,55,567
3	J3 Complex (PX4 & C2 complexes)	1,71,68,811
	Total	Rs. 17,75,56,394

<sup>\*</sup>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

						DAR Surrenary of	net.					FAM / 1945 / 146	REC ( 1997 ) 2001	FPA MARY DIS
	Complex:-	ZCOKER												
	(Year, Quarter):-	2022_24, Fourth Quarter (Oct-Dec 23 )												
Place Harms / Unit en	Equipment Type	Liet randoming period (Year, Querter)	Hanges	Heat for hangers	Stead	Value	No or Reserves Monthfood	Inaccostite & Inactalist Sources	Max of assurabe strection	Yeu of tealers	Teur	No, of leafer attention	to be attended training themselves	Remarks
XCDKER	Fuel-Gas Distribution System (V22)	2023_24, Tive quarter (Mly-Sep-23.)	35	-		62	197	a	857	2	0	NA.	764	
ZCDKER.	Make Gas Shorobston System	1023_24, Wind quarter (July-Sep-23.)	71	+	-	41	111		112		0	NA.	160	
zoosan	Heater 1/1/3/4 Floor Gas System	2023_24, Tried quarter (3/iy-5/g-23.)	372		- 1	280	963	0	193	.0	0	354	MA.	
200кел	Heater 3/3/3/4 Foot Size System	2023_24, Tried quarter (July-Sep-13.)	208	-		340	828		828	. 0	9	nn.	NA	
ZEONER	Sec and Pilot Ges	2023_24, Third quarter (July-Sep 23.)	794			49	343	0	143	0	0	766	366	NA den to heater is non operation
ZCOKER	Heater-1: Burnets (Fuel free Supply)	2023_24, Third quarter (July-Sup-23.)	800	7	-	480	1260	.0	3280	0	.0	. NA	NA:	
ZCOKER	Heater-2 Summirs (Fuel Kint Supply)	2023_2A, There querter (July-Sep-23.)	800		-	480	1280	.0	1281	0	0	NA	No.	
пожен	Heaten-3 Surpers (Fuel Gac Supply)	2023_24, Third quarter (Jule Sep-23.)	800	-	-	480	1290	0	1280	0	0	NA.	ħA.	
200MEN	Heater-4 Burners (Fuel Gas Supply)	2023_24, 1944 quarter (14y-lep-23)	800			480	1280	0	1200	0	0	564	164	
DOSES	Weater Alterners (Psot) Gas Supply)	2023_24, 10od quarter (July-Sep-23.)	800	2.3		322	1122		11122	п	9	TUA	ne.	
DOORER	Heater-2 Sumers Filet Gas Supply)	2023_24, Third quarter (July-Jee-23-)	800	141	- 4	821	1122	.0	1122	ď		NA.	760	
DOOKER	Heater-3 Surners (Pliet Gas Supply)	2023_24, Third quarter (July-Sep-23.)	800	1		321	1122	.0	7322	0	0	. NA	tuh .	
DOOMER	Heater-4 Burners (Pilot I Gas Supply)	2013_24, 1844 quarter (luke-Sep-28.)	800		27.1	322	1122	.0	1122	0	.0	NA.	NA.	
zcours.	Flare Gas Recovery System	3033_24, Yeard quarter (hily-Sep-29.)	201	1 1	1.0	305	211		311	0		564	26.	
200KES	Proctonator Overbeed System	2023_24. Third quarter (My-Sep-23.)	632	0		ID	501	0	363	0		504	NA.	
доонея	Compressor KOB SusterniVE(1)	2023_24. Yord quarter (July-Sen-23 )	26			21	-57	-0	57	0	0	NA.	NA.	
ROOMER	Congresses System	-2013, 24, Third quarter (My-Sep-22.)	150	3.		134	360	. 0	386	e		100	his.	
JOOKER	Compressor Seal System	3033_34, Thirt quarter (My-Sep-23.)	10	1	-	17	.54	.0	54	0		164	NA.	
DODGE	Francy Alasztser	2023_24, Third quarter (My-Sep-23)	52			32	34	0	62	0		: NA	NA	

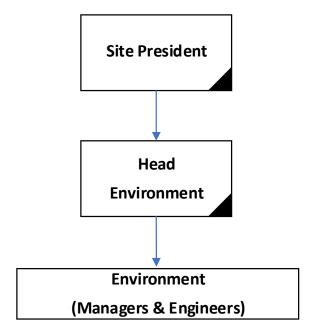
### Sample Format: Monitoring of Leak Detection & Repair Procedure (LDAR conducted during the last Quarter)...contd

Complex:- Period (Year, Quarter):-		2CONER 3023 ,34, Fourth Quarter (Oct-Oec 23 )												
Plant Name / Unit no	Equipment Type	Last monitoring period (Year, Quarter)	Floriges	Heat Exchangers	Seal	Valves	Se Of Sources Identified	Instruction & Insulated Sources	No. of sources checked	No of leates	To Look	No. of horks attended	No. of home to be attended turing planting	Remarks
ZCOKEK	Stripper	2023_24, Third quarter (July-Sep-23 )	175	4	*	80	259	0	259	0	0	NA.	NA.	
ZCOKER.	Debutaniser	2023_24. Third quarter (July Sep-21)	483	- 5		281	769	0	769:	4	0	SIA	- NA	
ZCOXER.	Eponge Absorber	2023_34, Third quarter Unity-Sep-23 1	37			24	98	0.	95	0.	(0)	.884	NA.	
200KER	Napriho Splitter	2023_24. Third quarter (July-Sep-29.)	454	- 4		228	666		666		0	NA	AL.	
ZCOKEH	Amine Absorber	2023_34, Third quarter (July-Sep-23 )	233	2		129	364	0	364	0	0	NA.	NA:	
2COXER	LLP Flore	2923_34, Third quarter (July-Sep-23.)	93			8007	195	0	195	0	0	\$61.	NA.	
ZCOKER	(CF Flace	2023_24, Third quarter (July-Sep-25)	98			708	206	:0	206	0	0	- NA	FAA	
2COKER	Z371 Area Pumps	2023_24. Third quarter Early Sep-23 (	26		10	.95	82	0	102	0	0	NA.	NA.	
ZCOKER	Z872 Ares Pumps	2023_34. Third quarter (July-Sep-25.)	65		25	132	262	0	242	o.	0	. NA	NA.	
2COVER.	Heater 7	2023_24, Third quarter (July-Sep-23.)	421			107	568	0	568	0	0	NA	PAR.	
200HER	Absorber Stripper Ased dram	2023_34, Third quarter (July-Sep-23.)	148	2		19	229	.0	219	0	00	NA.	NA NA	
ZCOKER	Total		10957	25	43	5970	16596	0	15996	0	0	NA	NA	

<sup>\*</sup>All inaccessible sources for LDAR completed

### Reliance Industries Ltd. Jamnagar

### **Organogram of Environment Department**





#### Environment Policy

Probation of serversement is of price property and a conclusion value of Reliance leskwitts Lindaud (RD). With a builing rule in perceiving competitive goods and coverage in the materials and energy value chains and infrastructure. RD is conscious of inresponsibility sewards the basis of the consumation is which is operated by creating, maintaining and receiving a sali and clean reviewment for sustainable levelopments.

#### In particular, KIL is committed to:

- Comply with all applicable how, regulations and conditions graced to revisionmental and forms discourse, as well as take any additional assumers considered increases to
- Implement on overcommental compilation transportant process to option deviations and opport the violations observed by the authorities to the MEE committee of
- 6 fedou acinimentoral netramental nanapeara vyere, promanerproces rish closely defined repossibilities in order to achieve combanil improvement and communicate an incommunical performance to the mikeholders.
- 8 Design new feelfoles and conduct operations with preventive approach and trobaters hor practices to avoid advises topacts to the human health and the environment.
- 8 Conserversamel resource by their expensible and efficient our tealbur operators.
- 6. Tele appropriate measures to prevent reviewmental incidences and manimize symplectic collect waster, discharges and antivious.
- Proteste tree plantation, green communiting and protestion of bindecrative at our locations as be in humano with nature:
- Enter appropriate training and sourcess on material extension, green has practice and no shared responsibility towards environmental projection among amplesses, contractive, engineered customers.
- \* Committee this policy to the saled olders.

Maria



#### Health, Safety, Environment and Quality Policy gar Manufacturing Div

At Relianos, preventina el injury, computinal di health, judiction and meeting customer requirements is an integral part of our benimes management, as our of the major manufacturing complies of Deleans in the energy value chairs, Jamagor Bellamy is fully constitue of it's sequentially invested operation in such manufacture to conduct the law law belong, interested parties in extraordinate, the endurement to enhance maintain for constitual development and matchia organizational enoughement through valuency leadership is incorative efforts in Nov with

- Wealth, Sadely and Epitternament
   Quality Policy signed by the Chairman Weidts, Salety and Europeanstal Policy &

In particular, we are comparted to:

- Comply with applicable IEEE/2 legal is offer require national secretary.
- Follow a structured Realth, Safety, Savinouseur and Quality Management System in order to achieve continual performance improvements.
- Setting up of objectives and targets for

  - Setting up of Objectives and targets for
    Feverentism of Injuries, Occopational Status and Incidents
     Improvements in Sed Communicion and estimation of subural necessorie
     Roduction is power Communicion, water generation and carbon-disordie emission.
     Roductionally nationally in Supportunities.
     Determining Biolis and Opportunities.
- Ensure every employee's responsibility in Health, Salety, Environment and Quality perfermance.
- Degradue appropriate operating provinces and training.
- Procure averages enough matractors, appliers and entenues for shared responsibility towards ISSE) Performance.
- Make our REEO commitment analysis to milds.
- Frozote Countitation and Participation of western.

Serinder S. Saint Ser Syandest 2004