

GHSI-Wrap-Coromandel

From: Rajeeva P Alva [GSI-Wrap-Coromandel]
Sent: 01 June 2012 17:07
To: environment@corim.in; rajeeva@corim.in; rajeeva@corim.in
Cc: Subhadra Venkat-Mgr-Environment-Wrap-Coromandel; GSI-Wrap-Coromandel; Rajeeva P-Alva-GSI-Wrap-Coromandel; Vinod Kumar Mishra-GSI-Wrap-Coromandel
Subject: Half Yearly GC (Environment Clearance) Compliance Report, 2011
Attachments: GC Compliance_RA SA Supervision_Mar 12.pdf

Dear Sir,

Ref: 1. No. J-112011/01/2018-IL, GO dated 14.07.2011
2. No. J-112011/01/2018-IL, GO dated 07.01.2012
3. No. J-112011/01/2018-IL, GO dated 27.06.2012

Please find the attached half yearly compliance report of Environment Clearance issued by MDDCC for enhancement of Phosphoric Acid production from 700 MT/PO to 1000 MT/PO, FGD and other auxiliary facilities within the existing Fertiliser Complex and "Change in location of new 1000 MT/PO Sulphuric Acid (2016) Plant within the existing Fertiliser complex" and "to add Oxidation Plant with Capacity of 10 MTPA".

Period of submission : Oct'11 to Mar'12
Unit : Coromandel International Limited, Visakhapatnam

Rajeeva
Rajeeva P
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SAVE ENVIRONMENT SAVE LIFE



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Coromandel International Limited, Visakhapatnam

Compliance status of Environment clearance

1. F.No. J-11051/751/2009-IA, 809 dated 14.07.2007
2. F.No. J-11051/751/2010-IA, 309 dated 27.01.2015
3. F.No. J-11051/751/2010-IA, 309 dated 27.06.2012

(For the period from Oct-2022 to March-2023)

Enhancement of Phosphoric Acid production (from 700 MTPD to 1000 MTPD) P.A., and other auxiliary facilities within the existing Fertilizer Complex, Srikalahasti, Visakhapatnam District, Andhra Pradesh by M/s Coromandel International Limited (Formerly M/s. Coromandel Fertilizer Limited) - Environmental Clearance -reg.

S.No.	Condition	Compliance
A. Specific Conditions:		
i.	Green belt of 12 M wide (Perennial trees) to be developed in three sides of plant periphery totaling 145 acre area.	The existing green belt area is more than 32% of the requirement. However, the plantation efforts will be continued.
ii.	The present fresh water requirement is 8700 m ³ /day. Additional fresh water for the proposed enhancement is to be limited to 1600 m ³ /day. The total fresh water requirement post enhancement shall not exceed 10300 m ³ /day. The present sea water requirement for once through cooling is 60000 m ³ / day and the same will be increased post enhancement to 66000 m ³ / day.	Agreed. The project is completely implemented. The new water balance is limited to 10300 m ³ /day.
iii.	No ground water shall be used.	Existing water source is GVMC (Local Municipal Body), no ground water source is used.
iv.	Post enhancement, the SO ₂ emissions from Sulphuric acid plant 1 and sulphuric acid plant 2 shall be maintained at 1 kg/hr and 0.65 kg/hr.	Noted & maintained.
v.	Imported coal/ rice husk/bagasse fired boiler of 40 TPH will be installed with ESP and 16 m stack height with SO ₂ emissions limited to 1188 kg/ day.	Complied.
vi.	Existing two nos. of LHRF fired boilers will be	LHRF fired boilers on standby only.

Coromandel International Limited, Visakhapatnam

	kept on standby mode.	
vi.	The gaseous emissions (SO ₂ , NO _x , NH ₃) and particulate matter from various process units shall conform to the norms prescribed by the CPCB/SPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	Complied. All the stacks are provided/retreated with Scrubbers as detailed below: SAP Plants: Alkal scrubbers PAP Plant: Fumes scrubber & H₂O unit Complex Stacks: 4 stage scrubbers New PAP units: Scrubbers kept in place. Ball Mill: Bag filters kept in place Coal Feed Boiler: ESP kept in line. The emissions are maintained within the prescribed limits by CPCB/SPCB.
vii.	Ambient air quality data shall be collected as per AMAQDS standards notified by the Ministry vide G.S.R. No. 824(E) dated 16 th September, 2009. The levels of PM ₁₀ , SO ₂ , NO ₂ , Ammonia, shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company land at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the concerned State Pollution Control Board (SPCB).	Complied
viii.	No process effluent shall be discharged in and around the project site. Process effluents shall be treated in ETP. Sewage shall be treated in STP. Both treated sewage water and process effluents shall be recycled/reused within factory premises to achieve zero discharge except during the rainy season.	All the process effluent is being treated in ETP. Sewage treated in STP and treated water is being used for plantation.
ix.	Risk assessment plan to be prepared and implemented.	complied
x.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall	Complied.

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	be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions should conform to the limits stipulated by the concerned SPCB.	All the necessary precautions for closed transport of raw materials and operations will be implemented for limiting of fugitive emissions.
		Emissions are maintained within CPCB/SPCB prescribed limits.
vi.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	DGs are only in standby and acoustic enclosure provided.
vii.	The company shall construct the gabard drain all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.	Gabard drains have been provided. Effluent is being treated in LTP.
viii.	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling, and Trans-Boundary Movement) Rules, 2008 and amended as in date for management of Hazardous wastes. Measures shall be taken for firefighting facilities in case of emergency.	Complied. CFO has been obtained Order No. APPCB/NSP/CG/CFGR/02/2022 30/05/2022
ix.	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.	Complied
x.	Spent catalysts and used oil shall be sold to authorized recycler/ re-processors only. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVAA), 1988.	Complied. As per the existing procedure, respective wastes are sent to authorized recycler/PCB approved TSDFs.
xi.	The company shall strictly follow all the recommendations mentioned in the Charter on	Complied

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	Corporate Responsibility for Environmental Protection (CRP).	
iii.	All the commitments made during the Public Hearing/Public Consultation meeting held on 8th December, 2018 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Noted and being followed.
iv.	Remote operated valve placed on NMS line to avoid leakage/equipment check shall be performed to ensure that remote operated valve (ROV) at all time is functional.	Complied and PM schedule adhered
v.	At least 1 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.	CSR expenditure is being spent as per the 5% of the project cost.
ix.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the factories act.	Complied and continued as per the factories act.
xii.	Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, canteen etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Complied.
xiii.	An Environment Cell will be set up and a regular environmental manager having PG qualification in environmental sciences/environmental engineering to be appointed for looking after the environmental management practices in the plant.	Environmental Management Cell is presently headed by AGM-EMS and is supported by environmental manager.
	8. GENERAL CONDITIONS:	
i.	The project authorities must strictly adhere to the stipulations made by the state Pollution	Agreed.

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	Control Board (SPCB), State Government and any other statutory authority.	
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Agreed.
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. There are two monitoring locations one in upwind and one in down wind direction, towards, Mutagoda & Gubapalem.
iv.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 816(I) dated 18th November, 2009 shall be followed.	It is being Complied.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied and noise levels are within the standards prescribed.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	complied
vii.	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	Training is being imparted regularly to employees. Pre employment medical check is part of HR policy before joining. Annual medical checkup is being undertaken regularly for all the

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	chemicals shall be imported.	employment
vi.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EM/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied
vii.	The company shall undertake all relevant measures for improving the socio- economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Complied as per the submitted CSR plan
viii.	The company shall undertake socio-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied as per the submitted CSR plan
ix.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is presently headed by AGM-EMS. In house laboratory is in place to monitor emissions & effluent.
x.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Complied
xi.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, District/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied
xii.	The project proponent shall also submit its monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as bye-mail) to the	Complied

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	respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and its monthly compliance status report shall be posted on the website of the company.	
vi.	The environmental statement for each financial year ending 31st March & Form-VII is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied and environmental statement for FY 2021-22 has been submitted on 29.09.2022.
vii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the 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.	Complied
viii.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied

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Compliance to Amended Environmental Clearance dated 07.01.2021

F. No. J-11011/31/2015-IA-II (3) dt 7th January 2021.

Proposed setting up of new 1500 MTPD Sulphuric acid (100%) plant within the Existing Fertilizer Complex, for total Sulphuric acid production of 3600 MTPD at Srikalpuram, Visakhapatnam district, Andhra Pradesh, without increase pollution load and total production of NP/NPK (2900 MTPD) and Phosphoric Acid (1400 MTPD) by M/s. Coromandel International Limited (Formerly M/s Coromandel Fertilizers Limited).

Sl. No	Para of EC issued by MoEF&CC	Description/Conditions	Compliance
1	Subject	Proposed setting up of new 1500 MTPD Sulphuric acid (100%) plant within the Existing Fertilizer Complex, for total Sulphuric acid production of 3600 MTPD at Srikalpuram, Visakhapatnam district, Andhra Pradesh, without increase pollution load and total production of NP/NPK (2900 MTPD) and Phosphoric Acid (1400 MTPD) by M/s. Coromandel International Limited (Formerly M/s Coromandel Fertilizers Limited).	-
2	Point 2	The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for <u>setting up of new 1500 MTPD Sulphuric acid (100%) plant within the Existing Fertilizer Complex, for total Sulphuric acid production of 3600 MTPD at Srikalpuram, Visakhapatnam district, Andhra Pradesh, without increase pollution load and total production of NP/NPK (2900 MTPD) and Phosphoric Acid (1400 MTPD) by M/s. Coromandel International Limited (Formerly M/s Coromandel Fertilizers Limited)</u>	-
3	Point 3	Existing land area is 111 Acres, of which 110 acres is developed as greenfield. <u>Additional cost of the project is ~ 400 Crore.</u> The additional estimated cost of various environmental management programs in the proposed project is ~ 10 Cr which is	Agreed and noted for compliance

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		around 1.5% of proposed Additional project cost. <u>In order to achieve sustained production of 3600 MTPD AP/NFA production, the facility intends to adopt the following modifications and upgrades to the approach of the ammonia fertiliser manufacturing:</u> • Installation of Additional 1500 MTPD of Sulphuric Acid production plant along with existing 2100 MTPD Sulphuric Acid Plant (SAP-1 (1700 MTPD) & SAP2 (400 MTPD). Total production capacity of Sulphuric acid shall be 3600 MTPD. • Use of low sulphur coal in coal fired boiler and optimising operations of existing sulphuric acid plant – 1 and coal fired boiler for no change in SO₂ emission from the sanctioned emission load. • Existing Phosphoric acid plant with production capacity of 1400 MTPD. • Provision of Sulphuric Acid storage capacity of 2 x 5000 MT + 2 x 12,500 MT +1500 MT along with existing storage capacity of 15,000 MT.	
4	Point 4	Power requirement will be increased from <u>20 MW to 21 MW</u>. The facility has contracted grid power of 12 MW, 5 MW from APSCCL and in-house steam turbine capacity of 3MW. The net available power for the existing operation is in the order of 21 MW. Hence the available power is adequate to meet the total requirement of 21 MW post enhancement.	Agreed
5	Point para 3	Fresh water requirement will be increased from 13350 m³/day to 14350 m³/day, which will be sourced from Greater Visakhapatnam Municipal Corporation (GVMC). Sea water consumption will be same i.e 84800 m³/ day.	Agreed and noted for compliance

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6	A-specific Condition 1	Green Belt of 12 M wide (Flemingia trees) to be developed in these sides of plant periphery totaling 120 acres approx.	Agreed. The existing green belt area is more than 12% of the requirement. However, the plantation efforts will be continued.
7	A-specific Condition 1	The present freshwater requirement is 30250 m ³ /day. <u>Additional fresh water for the proposed enhancement will be 6000 m³/day. The total freshwater requirement post enhancement shall not exceed 36650 m³/day.</u> The present sea water requirement for once through cooling will remain to be 89600 m ³ /day.	Agreed
8	A-specific Condition 4	Post assessment, the SO ₂ emissions from sulphuric acid plant-1 and sulphuric acid plant-2 shall be maintained at 0.5 kg/Mt and 0.65 kg/ Mt and in Sulphuric Acid Plant-3 shall be maintained at 0.75 kg/Mt.	Noted. These are applicable only after the capacity enhancement through the addition of Sulphuric Acid Plant -3 in which the SO ₂ shall be maintained at 0.75 kg/Mt. We have already requested to accord a line of confirmation in this regard.

Lab and Consultants

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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt. New Delhi
 NABL Accredited Laboratory

TEST REPORT

Test Report No. TLU/VKans/CBL/13/1821

@ 02.11.2022

Description of Test: Ambient Air quality Monitoring inside the CFL
 Name of the client: Cocoonair International Limited, Viskhapatnam
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of OCTOBER-2022

Summary of Ambient Air Quality Monitoring Data for the Month of OCTOBER-2022

Parameters		AAQ-1 Station at the Top of Chimney	AAQ-2 Station near DG set	AAQ-3 Station at Gate - 02 (Near Bagging plant)
PM ₁₀	Maximum	22	18	28
	Minimum	49	48	47
	Average	44	48	41
	Std. Dev.	11	18	15
PM _{2.5}	Maximum	31	55	39
	Minimum	89	87	89
	Average	91	85	88
	Std. Dev.	40	75	67
SO ₂	Maximum	83.8	11.9	7.9
	Minimum	25.1	26.9	22.9
	Average	16.1	17	12.9
	Std. Dev.	25.9	26.1	22.9
NO ₂	Maximum	12.7	14.5	8.5
	Minimum	24.5	21.9	20.9
	Average	24.5	22.9	20.9
	Std. Dev.	17.9	22.9	14.9
CO	Maximum	0.81mg/M ³	0.81mg/M ³	0.81mg/M ³
	Minimum	0.84mg/M ³	0.84mg/M ³	0.84mg/M ³
	Average	0.84mg/M ³	0.84mg/M ³	0.84mg/M ³
	Std. Dev.	0.84mg/M ³	0.84mg/M ³	0.84mg/M ³

All values are expressed in $\mu\text{g}/\text{m}^3$
 except Arsenic

For TEAM Lab and Consultants



Labs and Consultants

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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt. New Delhi

NABL Accredited Laboratory

TEST REPORT

41.02.12.2022

Test Report No. TCC/V/Env/CL/125122

Description of Test: Ambient Air quality Monitoring inside the CFL.
 Name of the client: Comanahil International Limited, Visakhapatnam.
 Location of sampling: Seelampur per details given.
 Period of Monitoring: For the Month of NOVEMBER 2022

Summary of Ambient Air quality Monitoring Data for the Month of NOVEMBER 2022

Parameter		ANO-1 Station at the Top of Column	ANO-2 Station near DG reb	AAQ-5 Station at Gate -01 Over Bypass stack
PM _{2.5}	Maximum	31	15	31
	Minimum	42	49	42
	Average	42	45	42
	Std. Dev.	36	40	37
PM ₁₀	Maximum	48	14	51
	Minimum	78	11	82
	Average	78	33	82
	Std. Dev.	71	72	72
SO ₂	Maximum	14.7	23.2	15.5
	Minimum	26.2	22.7	16.8
	Average	15.9	26.5	15.9
	Std. Dev.	24.4	26.7	21.8
NO ₂	Maximum	15.5	19.5	17.8
	Minimum	22.0	18.7	18.1
	Average	22.0	17.2	18.1
	Std. Dev.	18.8	12.2	15.2
NH ₃	Maximum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Minimum	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³
	Std. Dev.	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³

All values are expressed in µg/m³
 except Ammonia

For: TEAM Labs and Consultants



Labs and Consultants

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ISO/IEC Accredited Laboratory

TEST REPORT

Test Report No: TLO/CT/PE/12/1222

01.01.2023

Description of Test: Ambient Air quality Monitoring inside the CFL
 Name of the client: Commercial Interest and Linked, Visakhapatnam
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of DECEMBER-2022

Summary of Ambient Air quality Monitoring Data for the Month of DECEMBER-2022

Parameters		AAQ-1 Station at 5m Top of Column	AAQ-2 Station near DG set	AAQ-3 Station at Dist ~10 (Near Sampling Point)
PM ₁₀	Maximum	34	37	33
	Minimum	42	41	44
	Average	42	41	44
	Standard	38	41	38
PM _{2.5}	Maximum	55	52	45
	Minimum	35	36	39
	Average	48	39	42
	Standard	35	38	31
SO ₂	Maximum	16.5	21.2	12.5
	Minimum	21.5	25.2	15.5
	Average	15.0	24.4	14.7
	Standard	21.5	26.5	15.1
NO ₂	Maximum	16.5	26.2	14.7
	Minimum	21.5	25.8	16.9
	Average	21.5	25.9	16.9
	Standard	15.8	25.2	17.6
NH ₃	Maximum	0.05mg/M ³	0.05mg/M ³	0.01mg/M ³
	Minimum	0.05mg/M ³	0.04mg/M ³	0.05mg/M ³
	Average	0.05mg/M ³	0.04mg/M ³	0.05mg/M ³
	Standard	0.05mg/M ³	0.05mg/M ³	0.05mg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants

Labs and Consultants

Registered Office :

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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Gov. New Delhi

NABL Accredited Laboratory

TEST REPORT

Test Report No. TLC/V/Env/CH/120123

@ 02.02.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Corenubal International Limited, Visakhapatnam
 Location of sampling: Site/area as per details given
 Period of Monitoring: For the Month of JANUARY-2023

Summary of Ambient Air quality Monitoring Data for the Month of JANUARY-2023

Parameter		AAQ-I Station at the Top of Culture	AAQ-I Station near BIC area	AAQ-I Station at Gate-17 (Near Bidding Road)
PM _{2.5}	Maximum	20	35	31
	Minimum	01	15	13
	95%ile	10	15	12
	Average	08	11	09
PM ₁₀	Maximum	25	72	58
	Minimum	01	38	38
	95%ile	01	38	38
	Average	11	19	13
SO ₂	Maximum	11.5	21.8	13.7
	Minimum	11.8	26.8	15.9
	95%ile	16.8	26.8	15.9
	Average	21.8	26.8	15.8
NO ₂	Maximum	18.8	23.8	16.7
	Minimum	23.8	26.5	18.2
	95%ile	23.8	26.5	18.2
	Average	21.8	26.8	16.3
NH ₃	Maximum	0.15mg/m ³	0.11mg/m ³	0.09mg/m ³
	Minimum	0.02mg/m ³	0.03mg/m ³	0.02mg/m ³
	95%ile	0.02mg/m ³	0.03mg/m ³	0.02mg/m ³
	Average	0.11mg/m ³	0.11mg/m ³	0.11mg/m ³

All values are expressed in $\mu\text{g}/\text{m}^3$
 except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt. New Delhi
 NABL Accredited Laboratory

TEST REPORT

Test Report No. T/CV/Env/CIL/12/0023

01.03.2023

Description of Test: Ambient Air quality Monitoring inside the CPT.
 Name of the client: Carromland International Limited, Vengal Rao Nagar
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of FEBRUARY-2023

Summary of Ambient Air quality Monitoring Data for the Month of FEBRUARY-2023

Parameters		AAQ-1 Station at 1m Top of Column	AAQ-2 Station near PUJ unit	AAQ-3 Station at Gate-12 (Near Building plot)
PM _{2.5}	Station 1	32	31	38
	Maximum	38	33	47
	Minimum	30	44	45
	Average	35	45	39
	Station 2	44	39	49
PM ₁₀	Station 1	76	62	66
	Maximum	76	80	84
	Minimum	70	78	54
	Average	73	75	74
	Station 2	11.8	11.3	11.6
SO ₂	Station 1	11.8	10.5	10.6
	Maximum	15.5	15.6	14.7
	Minimum	10.8	10.2	10.0
	Average	13.8	11.1	14.7
	Station 2	11.7	10.2	10.1
NO ₂	Station 1	11.7	10.1	10.1
	Maximum	11.7	10.1	10.1
	Minimum	11.7	10.1	10.1
	Average	11.7	10.1	10.1
	Station 2	0.17ug/M ³	0.17ug/M ³	0.17ug/M ³
NH ₃	Station 1	0.17ug/M ³	0.17ug/M ³	0.17ug/M ³
	Maximum	0.17ug/M ³	0.17ug/M ³	0.17ug/M ³
	Minimum	0.17ug/M ³	0.17ug/M ³	0.17ug/M ³
	Average	0.17ug/M ³	0.17ug/M ³	0.17ug/M ³
	Station 2	0.17ug/M ³	0.17ug/M ³	0.17ug/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/En/CIL/04/0323

26.01.24.2023

Description of Test: Ambient Air quality Monitoring inside the CIL,
 Name of the client: Customised International Limited, Visakhapatnam
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of MARCH-2023

Summary of Ambient Air quality Monitoring Data for the Month of MARCH-2023

Parameter		AAQ-1 Station at On Top of Columns	AAQ-2 Station near DG unit	AAQ-3 Station at Gate -10 (Near Bagging Plant)
PM ₁₀	Maximum	38	35	32
	Minimum	38	42	40
	SPM ₁₀	38	42	40
	Average	34	39	37
PM _{2.5}	Maximum	22	20	20
	Minimum	11	16	16
	SPM _{2.5}	22	16	16
	Average	25	17	17
SO ₂	Maximum	8.2	8.8	9.7
	Minimum	10.2	11.1	11.8
	SPM ₂	10.2	11.1	11.8
	Average	8.2	9.4	10.8
NO ₂	Maximum	12.5	13.1	13.5
	Minimum	10.2	10.4	11.8
	SPM ₂	10.2	10.4	11.8
	Average	12.5	12.4	14.4
NH ₃	Maximum	0.01mg/m ³	0.01mg/m ³	0.01 mg/m ³
	Minimum	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	SPM ₂	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Average	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³

All values are expressed in $\mu\text{g}/\text{m}^3$
 except Ammonia

For TEAM Labs and Consultants



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Test Report No./TLCV/En+RFL/34/1422

4102.11.1422

Description of Test: Feis wells analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: As per details given

No	Date	Location of Feis well	F- mg/L
1	25.10.2022	CFT - colony	0.3
2	"	Near 4 th OP Gate	0.4
3	"	Near 7 th gate	0.5
4	"	R.T.Nalla	0.3
		ISIR500 Permethrinic Insect	1.5
	Prepared		SM 450 (T-B)

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Test Report No. TLG/V/Env/CFL/16/1122

06.02.2022

Description of Test: Pesticide analysis

Name of the client: Cocoonworld International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: As per details given

No	Date	Location of Pesticide	P- μ g/L
1	26.11.2021	CFL - colony	9.25
2	"	Near OP Gate	8.25
3	"	Near 7 th gate	0.5
4	"	B.T. Nalla	0.8
		IS 14589 Permethrin limit	1.8
	Product		994-2084-0

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Ken/CFL/14/1222

06/03/2013

Description of Test: Potas well: analysis

Name of the client: Camanada International Limited, Visakhapatnam

Location of sampling: Station: as per details given

Date of Sample collection : As per details given

No.	Date	Location of Potas well	F- mg/L
1	28.12.2012	CFL - colony	8.5
2	"	Near OP Gate	8.5
3	"	Near T th gate	8.5
4	"	B.T.Nashu well	8.5
		ISO 2000 Potas well limit	1.3
	Protocol		100 400 F- 2

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TEST REPORT

Test Report No. TML/ENV/Env/CFL/16/0123

16.01.2023

Description of Test: Pesticide analysis

Name of the client: Carromandal International Limited, Visakhapatnam

Location of sampling: Station as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide	P- mg/L
1	15.01.2023	CFL - colony	8.4
2	"	Near 4 OP Gate	8.5
3	"	Near 1 st gate	8.4
4	"	R.T. Naidu	0.3
		Enduro Permethrin Resin	1.5
	Prepared		Dr. GMR P. D.

For TEAM Labs and Consultants



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NAAB, Accredited Laboratory**TEST REPORT**

Test Report No: TLC/V/Env/CPL/16/0223

DL/21.03.2023

Description of Test: Pison wells analysis

Name of the client: Commanche International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pison well	F ⁻ mg/L
1	23.02.2023	CPL - colony	6.3
2	"	Near 4 OP Gate	1.5
3	"	Near 7 th gate	9.5
4	"	B.T/North gate	4.3
		BR 1500 Permethrin level	1.2
	Prepared		on site C-D

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Test Report No: TLC/V/Enr/CFL/160323

06.01.2023

Description of Test: Pile-soil analysis

Name of the client: Ceromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: As per details given

No	Date	Location of Pile-soil	F, mg/L
1	21.03.2023	CFL - colony	0.3
2	"	Near OP Gate	0.5
3	"	Near 2 nd gate	0.4
4	"	CRC	0.6
		IS 15000 Permissible limit	1.5
	Protocol		100 000 3: 10

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TEAM/WH/CH/11/1012

4.12.16.2012

Description of Test:

Source Emission Monitoring inside the CFC.

Name of the client:

Coromandel International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per attached photo

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF OCTOBER-2012

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	APPCB Standard Limit
1	Complex A	10000	Particulate matter	25	45 mg/Nm ³
			Ammonia	12	100 mg/Nm ³
			Fluoride	1.2	5 mg/Nm ³
2	Complex B	10000	Particulate matter	25	45 mg/Nm ³
			Ammonia	40	100 mg/Nm ³
			Fluoride	5.1	4 mg/Nm ³
3	Complex C	10000	Particulate matter	18	45 mg/Nm ³
			Ammonia	30	100 mg/Nm ³
			Fluoride	1.2	4 mg/Nm ³
4	Sulphuric acid plant I	6700	Sulphur dioxide	0.24 kg/Nm ³ (10 mg/Nm ³)	1 kg/Nm ³
			Sulphur trioxide	5.1	0.25 kg/Nm ³
			Acid mist	60	10 mg/Nm ³
			Total	6.34 kg/Nm ³ (25 mg/Nm ³)	1.05 kg/Nm ³
5	Sulphuric acid plant II	20700	Sulphur dioxide	0.24 kg/Nm ³ (10 mg/Nm ³)	1.05 kg/Nm ³
			Sulphur trioxide	5.1	0.25 kg/Nm ³
			Acid mist	50	10 mg/Nm ³
6	Phosphoric acid plant I	6000	Particulate matter	21	45 mg/Nm ³
			Fluoride	5.8	20 mg/Nm ³
			Total	26	65 mg/Nm ³
7	Sulphuric acid plant (OH)	7700	Particulate matter	20	45 mg/Nm ³
			Sulphur dioxide	20	20 mg/Nm ³
8	Waste Water	12000	Particulate matter	20	15 mg/Nm ³
			Total	20	15 mg/Nm ³
9	Phosphoric acid plant II	24300	Particulate matter	27	45 mg/Nm ³
			Total	4.9	20 mg/Nm ³
10	Sulphuric acid plant (NH)	13700	Particulate matter	20	45 mg/Nm ³
			Total	4.9	20 mg/Nm ³

For TEAM Labs and Consultants



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TEST REPORT

41.61.12.2022

Test Report No. TELL327P-010/22

Description of Test: Sewage Treatment Plant (STP) for the City

Name of the Client: Government of Karnataka, Government of Karnataka

Location of sampling: works attached to respective plants as per details given

SOURCE: STP, EMERGENCY MONITORING FOR THE MONTH OF NOVEMBER 2022

S/N	Sample collected at	Flow rate (m ³ /hr)	Parameter	Unit	APPC & Standard Limit
1	Sample A	17100	Parachloro water	21	45 mg/100 ^l
			Ammonia	35	101.8 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l
2	Sample B	15400	Parachloro water	26	45 mg/100 ^l
			Ammonia	18	101.8 mg/100 ^l
			Fluoride	1.0	1.7 mg/100 ^l
3	Sample C	14900	Parachloro water	18	45 mg/100 ^l
			Ammonia	15	101.8 mg/100 ^l
			Fluoride	1.0	1.7 mg/100 ^l
4	Sample and plant I	91100	Parachloro water	11.86 mg/100 ^l	1.7 mg/100 ^l
			Ammonia	11.86 mg/100 ^l	1.7 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l
5	Sample and plant II	11042	Parachloro water	11.86 mg/100 ^l	1.7 mg/100 ^l
			Ammonia	11.86 mg/100 ^l	1.7 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l
6	Sample and plant I	14130	Parachloro water	11.86 mg/100 ^l	1.7 mg/100 ^l
			Ammonia	11.86 mg/100 ^l	1.7 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l
7	Sample and plant II	12149	Parachloro water	11.86 mg/100 ^l	1.7 mg/100 ^l
			Ammonia	11.86 mg/100 ^l	1.7 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l
8	Sample and plant I	11130	Parachloro water	11.86 mg/100 ^l	1.7 mg/100 ^l
			Ammonia	11.86 mg/100 ^l	1.7 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l
9	Sample and plant II	14170	Parachloro water	11.86 mg/100 ^l	1.7 mg/100 ^l
			Ammonia	11.86 mg/100 ^l	1.7 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l
10	Sample and plant I	11215	Parachloro water	11.86 mg/100 ^l	1.7 mg/100 ^l
			Ammonia	11.86 mg/100 ^l	1.7 mg/100 ^l
			Fluoride	1.1	1.7 mg/100 ^l

For TEAM Laboratory Consultants



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TEST REPORT

Test Report No. TCA/CMR/CL/161222

#16121.2022

Description of Test: Source Emission Monitoring with the CTR.

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: stacks situated in respective plants as per details given

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF DECEMBER-2022

S.No.	Stack situated in	Flow rate m ³ /hr	parameter	Unit: mg/Nm ³	APPCD Standard Limit
1	Cement A	1084	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³
2	Cement B	1245	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³
3	Cement C	2404	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³
4	Sulphate acid plant I	1125	Sulphate acid	1.00 mg/Nm ³ (40 mg/Nm ³)	1 mg/Nm ³
			Sulphate dust	30	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
5	Sulphate acid plant II	1244	Sulphate acid	1.00 mg/Nm ³ (40 mg/Nm ³)	1 mg/Nm ³
			Sulphate dust	30	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
6	Phosphate acid plant	1464	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³
7	Sulphur plant (20)	1237	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³
8	Gypsum plant	764	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³
9	Phosphate acid plant 2	2763	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³
10	Sulphur plant (20) 2	710	Particulate	35	30 mg/Nm ³
			SO ₂	35	30 mg/Nm ³
			NO _x	25	25 mg/Nm ³
			CO	10	10 mg/Nm ³

For TEAM Labor and Consultants

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TEST REPORT

Test Report No. TSLC/VI/Env/CBL/11/0123

01.01.2013

Description of Test:

Soil Quality Monitoring inside the CFL

Name of the client:

Coromandel International Limited, Visakhapatnam

Location of sampling: soils attached to respective plants as per details given

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF JANUARY 2013

S.No.	Soil attached to	Flow rate NM ³ /hr	parameter	Conc. mg/NM ³	APPCD Standard Limit
1	Complex A	35420	Particulate matter	27	45 mg/NM ³
			Ammonia	10	100.0 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
2	Complex B	28820	Particulate matter	26	45 mg/NM ³
			Ammonia	10	100.0 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
3	Complex C	17811	Particulate matter	15	45 mg/NM ³
			Ammonia	10	100.0 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
4	Sulphuric acid plant-I	9772	Sulphur dioxide	0.45mg/NM ³ (110mg/NM ³)	1 mg/NM ³
			Sulphur trioxide	50	0.10 mg/NM ³
			Acid mist	50	10 mg/NM ³
			Sulphur hexafluoride	0.45mg/NM ³ (110mg/NM ³)	0.05 mg/NM ³
5	Sulphuric acid plant-II	20154	Sulphur dioxide	0.45mg/NM ³ (110mg/NM ³)	0.05 mg/NM ³
			Sulphur trioxide	50	0.10 mg/NM ³
			Acid mist	50	10 mg/NM ³
			Sulphur hexafluoride	0.45mg/NM ³ (110mg/NM ³)	0.05 mg/NM ³
6	Phosphate acid plant-I	14178	Particulate matter	18	45 mg/NM ³
			Fluoride	1.5	20 mg/NM ³
			Particulate matter	18	45 mg/NM ³
7	Stack gassing unit (OAC)	10821	Particulate matter	18	45 mg/NM ³
			Total Fluoride	1.5	20 mg/NM ³
8	Waste Boiler	9822	Particulate matter	18	20 mg/NM ³
9	Phosphate acid plant-2	22804	Particulate matter	15	45 mg/NM ³
			Total Fluoride	1.5	20 mg/NM ³
			Particulate matter	15	45 mg/NM ³
10	Stack gassing unit (New)	1246	Particulate matter	15	45 mg/NM ³
			Total Fluoride	1.5	20 mg/NM ³

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TEST REPORT

Test Report No. TEL/CN/Env/CIL/H/0023

04.01.2023

Description of Test: Soils Database Monitoring inside the CPL

Name of the client: Carsons and International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF FEBRUARY-2023

S.No.	Stack attached to	Flow rate (m ³ /hr)	parameters	Conc. mg/m ³	APPC's Standard Limit
1	Complex A	10000	Particulate matter	30	30 mg/m ³
			Sulphur dioxide	30	100 mg/m ³
			Phosphorus	4.4	4.4 mg/m ³
2	Complex B	10000	Particulate matter	30	30 mg/m ³
			Sulphur dioxide	30	100 mg/m ³
			Phosphorus	4.4	4.4 mg/m ³
3	Complex C	10000	Particulate matter	30	30 mg/m ³
			Sulphur dioxide	30	100 mg/m ³
			Phosphorus	4.4	4.4 mg/m ³
4	Sulphuric acid plant-I	10000	Particulate matter	30	30 mg/m ³
			Sulphur dioxide	30	100 mg/m ³
			Phosphorus	4.4	4.4 mg/m ³
			Sulphuric acid	0.05 mg/m ³	0.05 mg/m ³
			Acid value	20	20 mg/m ³
5	Sulphuric acid plant-II	10000	Particulate matter	30	30 mg/m ³
			Sulphur dioxide	30	100 mg/m ³
			Phosphorus	4.4	4.4 mg/m ³
			Sulphuric acid	0.05 mg/m ³	0.05 mg/m ³
			Acid value	20	20 mg/m ³
6	Phosphoric acid plant-I	10000	Particulate matter	30	30 mg/m ³
			Phosphorus	4.4	4.4 mg/m ³
7	Acid gas treating unit (HCL)	1000	Particulate matter	30	30 mg/m ³
			Total Chloride	1.0	1.0 mg/m ³
8	Wet acid boiler	1000	Particulate matter	30	30 mg/m ³
			Sulphur dioxide	30	100 mg/m ³
9	Phosphoric acid plant-II	10000	Particulate matter	30	30 mg/m ³
			Total Phosphorus	4.4	4.4 mg/m ³
10	Acid gas treating unit (NaOH)	1000	Particulate matter	30	30 mg/m ³
			Total Chloride	1.0	1.0 mg/m ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TGL/V/Env/CEL/05/1022

04.02.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Commercial International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 21.10.2021

NO	Location of well	pH	PH	F-	Ammonia Nitrogen
			mg/l	mg/l	mg/l
1	Kamalahalli colony- No.1	7.7	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.6	Nil	0.2	Nil
3	Yeshwanthipalem-1	7.7	Nil	0.2	Nil
4	Yeshwanthipalem-2	7.5	Nil	0.2	Nil
5	Malapeta No.1	7.6	Nil	0.2	Nil
6	Malapeta No.2	7.5	Nil	0.2	Nil
7	Malapeta No.3	7.6	Nil	0.2	Nil
8	Kodiyandahadiba	7.7	Nil	0.2	Nil
	Prossed	8.002 Part 16.100	0.71045000	Nil 450 P D	0.91162000

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CH/ANU/22

dt.05.12.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Caromatel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.11.2022

NO	Location of well	pH	TD4 mg/l	F- mg/l	Ammonia Nitrogen mg/l
1	Kamalahalli colony- No.1	7.6	NB	0.5	NB
2	Kamalahalli colony- No.2	7.3	NB	0.2	NB
3	Veduravastipalem-1	7.2	NB	0.2	NB
4	Veduravastipalem-2	7.6	NB	0.2	NB
5	Mahaganis No.1	7.6	NB	0.2	NB
6	Mahaganis No.2	7.7	NB	0.3	NB
7	Mahaganis No.3	7.4	NB	0.2	NB
8	Kadlaganahalli Village	7.6	NB	0.2	NB
	Preval	10.3025 Part 10-150	APHA47980	SM 4500 F- 2	APHA47980

For TEAM Labs and Consultants



Lab and Consultancy

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TEST REPORT

Test Report No: TLC/IV/San/CIL/AN/1212

Date: 01.01.2023

Description of Test: Surrounding village wells- Ground water analysis

Name of the client: Camasand International Limited, Yashwanthpuram

Location of sampling: Station as per details given

Date of Sample collection: 26.12.2022

No.	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahalli colony- No.2	7.3	Nd	0.2	Nd
2	Kamalahalli colony- No.2	7.3	Nd	0.3	Nd
3	Yashwanthpuram-1	7.3	Nd	0.2	Nd
4	Yashwanthpuram-2	7.4	Nd	0.3	Nd
5	Malaguda No.1	7.6	Nd	0.2	Nd
6	Malaguda No.2	7.3	Nd	0.3	Nd
7	Malaguda No.3	7.4	Nd	0.3	Nd
8	Kodigandla village Pond	7.3	Nd	0.2	Nd
		10/2022 Pot (1-100)	AP/144960	Nd and F- D	AP/144960

For TEAM Lab and Consultancy

Laboratory and Consultants

Registered Office:

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TEST REPORT

Test Report No. TLC/V/Env/CL/159123

09.01.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Command Interventional Limited, Washkhanpura

Location of sampling: Stations as per details given

Date of sample collection: 09.01.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia N Nitrogen mg/l
1	Kamuladevi colony- No.1	7.4	80	0.2	80
2	Kamuladevi colony- No.2	7.3	80	0.2	80
3	Yaduvansipalem-1	7.7	80	0.2	80
4	Yaduvansipalem-2	7.5	80	0.2	80
5	Malavada No.1	7.6	80	0.2	80
6	Malavada No.2	7.7	80	0.2	80
7	Malavada No.3	7.4	80	0.2	80
8	Kadavandale village	7.5	80	0.2	80
	- Present	10.000 Part 11.190	APHA/8810D	80 884 P 0	APHA/8810C

For TEAM Lab and Consultants



Labs and Consultants

Registered Office :

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TEST REPORT

Test Report No.TL/C/V/En/CL/15/0225

dt:02.03.2023

Description of Test: Surrounding village with Ground water analysis

Name of the client: Carrommed International Limited, Vasikhapetam

Location of sampling: Sitations as per details given

Date of sample collection: 27.02.2023

Sl. NO	Location of well	pH	Fe/4 mg/l	P- mg/l	Ammonia (Nitrogen) mg/l
1	Kamadaleti colony- No.1	7.5	ND	0.2	ND
2	Kamadaleti colony- No.2	7.6	ND	0.2	ND
3	Velthuru-vengaloth-1	7.5	ND	0.2	ND
4	Velthuru-vengaloth-2	7.7	ND	0.2	ND
5	Malagada No.1	7.6	ND	0.2	ND
6	Malagada No.2	7.3	ND	0.2	ND
7	Malagada No.3	7.4	ND	0.2	ND
8	Kudipusathala dithu	7.3	ND	0.2	ND
	Process	ISIRI Part 11-082	APHA (2005)	50 0.005 P- B	APHA (2005)

For TEAM Labs and Consultants



TEST REPORT

Test Report No. TLLCV/Tea/CIL/09/2023

dt.01.04.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Comanadel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 10.03.2023

NO	Location of well	pH	PO4 mg/l	P- mg/l	Ammonia & Nitrogen mg/l
1	Kamalahari colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahari colony- No.2	7.2	Nil	0.2	Nil
3	Yadav colony-1	7.1	Nil	0.2	Nil
4	Yadav colony-2	7.1	Nil	0.2	Nil
5	Mataguda No.1	7.8	Nil	0.2	Nil
6	Mataguda No.2	7.9	Nil	0.2	Nil
7	Mataguda No.3	7.8	Nil	0.2	Nil
8	Kodipachala colony	7.6	Nil	0.2	Nil
	Present	0.0025 Part in 1000	4 PPM (1000)	50 PPM P- B	4 PPM (1000)

For TEAM Lab and Consultants



Labor and Consultants

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TEST REPORT

Test Report No. TLCA/Env/CHE/2018022

06.05.18, 2018

Description of Test: Ambient Air Quality Monitoring outside the CTE

Name of the client: Comandul International Limited, Visakhapatnam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analysis Report for the Month of OCTOBER, 2017

Date of monitoring	Time	PM_{10} Limit 50 $\mu g/m^3$	PM_{10} Limit 100 $\mu g/m^3$	SO_2 Limit 80 $\mu g/m^3$	NO_2 Limit 80 $\mu g/m^3$
27.10.2017 To 28.10.2017	09.00 to 09.00 hrs	42	79	15.5	16.6

All values are given in $\mu g/m^3$

For TEAM Labor and Consultants



Labs and Consultants**Registered Office:**

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ANIL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CPL/20/1122

09.01.2022

Description of Test: Ambient Air Quality Monitoring outside the CPL.

Name of the client: Coromandel International Limited, Vellore Region.

Location of sampling: Near Warf

Date of Collection: As per details Given

Ambient Report for the Month of NOVEMBER, 2021

Date of monitoring	Time	PM ₁₀ Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
28.11.2021 To 28.11.2021	00.00 to 09.00 hrs	40	37	14.1	18.9

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



Labor and Consultants

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TEST REPORT

Test Report No. TML/CN/Env/CFL/20/1222

06.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL.

Name of the client: Caromatel International Limited, Visakhapatnam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analytical Results for the Month of DECEMBER-2022

Date of monitoring	Time	PM ₁₀ Limit 40 $\mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 90 $\mu\text{g}/\text{m}^3$
11.12.2022 To 01.01.2023	09.00 hrs 09.00 hrs	41	52	16.6	19.8

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labor and Consultants

Labs and Consultants**Registered Office :**

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TEST REPORT

Test Report No: TEAM/Year/CYL/18/0123

24.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CTL

Name of the client: Carapandal Investment and Limited, Visakhapatnam

Location of sampling: Near Wall

Date of Collection: As per details Given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	Time	PM _{2.5} Limit 50 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 50 $\mu\text{g}/\text{m}^3$
24.01.2023 To 25.01.2023	09.00 to 09.00 hrs	48	75	14.8	15.5

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



Lab and Consultants**Registered Office:**

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TEST REPORTTest Report No. **TLCV/Env/CTL/289223****01.02.2023**Description of Test: **Ambient Air Quality Monitoring outside the CTL**Name of the client: **Commercial International Limited, Visakhapatnam**Location of sampling: **Near Wharf**Date of Collection: **As per details Given****Analysis Report for the Month of FEBRUARY-2023**

Date of monitoring	Time	PM ₁₀ Limit 50 µg/m ³	PM _{2.5} Limit 35 µg/m ³	SO ₂ Limit 50 µg/m ³	NO _x Limit 50 µg/m ³
15.01.2023 To 15.02.2023	05.00 to 09.00 hrs	38	38	142	21.5

All values are given in µg/m³

For TEAM Lab and Consultants



Labs and Consultants

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(NABL Accredited Laboratory)**TEST REPORT**

Test Report No. TLC/V/Env/CPL/200323

JL01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CTL

Name of the client: Carromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of MARCH-2023

Date of monitoring	Time	PM ₁₀ Limit 50 µg/m ³	PM _{2.5} Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
24.03.2023 To 30.03.2023	09.00 to 09.00 hrs	34	77	13.2	25.8

All values are given in µg/m³

For TEAM Labs and Consultants



Labs and Consultants**Registered Office:**

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TEST REPORT

Test Report No./TL/CV/Env/CIL/13/1022

01.02.21.2022

Description of Test: Ambient Air Quality Monitoring - outside the CPJ.

Name of the client: Ceramand International Limited, Yankalapetnam.

Location of sampling: Melaguda

Date of Collection: As per details given.

Analysis Report for the Month of OCTOBER-2022

Date of monitoring	PM2.5 Limit 50 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO_2 Limit 80 $\mu\text{g}/\text{m}^3$	NO_2 Limit 80 $\mu\text{g}/\text{m}^3$
05.10.2022	14	48	7.5	9.8
06.10.2022	16	42	7.1	9.0
11.10.2022	08	45	8.2	11.2
13.10.2022	34	85	9.5	12.5
17.10.2022	26	58	9.2	10.8
19.10.2022	30	60	11.8	12.2
25.10.2022	36	60	18.5	18.3
Protocol	Good (WHO, CPM standard)	Good (WHO, CPM standard)	Good (WHO, CPM standard)	Good (WHO, CPM standard)

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLA/CV/Env/CIL/141022

06.02.2022

Description of Test: Ambient Air Quality Monitoring outside the CFL
 Name of the client: Ceresworld International Limited, Visakhapatnam
 Location of sampling: Callalupalem
 Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-2021

Days of monitoring	PM _{2.5} Limit 45 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO _x Limit 50 $\mu\text{g}/\text{m}^3$
03.10.2021	28	45	8.5	18.6
06.10.2021	15	40	7.8	9.9
11.10.2021	18	62	8.2	10.9
13.10.2021	22	90	9.2	12.6
17.10.2021	24	52	9.5	12.2
19.10.2021	25	55	9.0	10.4
25.10.2021	20	65	17.3	16.9
Protocol	Gravimetric CPC method	ISAO 7403 20-200	ISPM 7403 1-2003	ISAO 7403 1-2003

For TEAM Labs and Consultants

Labs and Consultants**Registered Office :**

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NABL Accredited Laboratory**TEST REPORT**

dt:03.12.2022

Test Report No:TLC/V/Kes/CH/EN/1122

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Carwashand International Limited, Visakhapatnam

Location of sampling: Malapada

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2022	20	44	8.9	10.6
05.11.2022	24	48	9.9	11.5
07.11.2022	28	42	9.8	12.5
09.11.2022	26	54	10.2	15.5
14.11.2022	28	50	9.8	12.7
18.11.2022	31	62	10.8	14.7
22.11.2022	30	58	10.0	15.8
Prepared	Grant method (TTC) used	10142 PART- 2 -2005	10142 PART- 2 -2005	10142 PART- 2 -2005

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



Labx and Consultants

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TEST REPORT

Test Report No. TLA/VT/AS/CIL/14/1122

dt. 02.12.2022

Description of Test: Ambient Air Quality Monitoring outside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Guntakapalem
Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2022

Date of monitoring	PM2.5 Limit 05 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2022	22	45	9.0	11.5
05.11.2022	24	92	6.8	10.8
07.11.2022	25	54	9.2	12.0
09.11.2022	20	44	8.5	10.2
11.11.2022	28	59	10.2	14.7
13.11.2022	27	54	10.4	15.2
21.11.2022	31	49	9.8	12.5
Frequency	Continuous CPC based	PM10 AUTO 25 - 2000	SO2 AUTO 1 - 200	NO2 AUTO 0 - 2000

For TEAM Labx and Consultants



Lab and Consultants

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TEST REPORT

Test Report No. TLC/VI/Env/CBL/141322

4.82.81.2022

Description of Test: Ambient Air Quality Monitoring outside the CBL

Name of the client: Caromatel International Limited, Visakhapatnam

Location of sampling: Gullapalem

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER-2022

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
05.12.2022	39	45	5.5	16.8
08.12.2022	25	78	9.0	11.7
13.12.2022	27	94	9.8	12.4
16.12.2022	28	85	7.3	11.7
19.12.2022	30	89	10.7	13.8
23.12.2022	30	84	9.5	13.8
27.12.2022	30	94	9.8	11.8
Present	Limit value, CPCB norm	Limit PM10: 10000 PM10: 11-2000	Limit SO ₂ : 2-200	Limit NO ₂ : 4-200

For TEAM Lab and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TLA/VE/CPL/01/2022

06.01.2023

Description of Test: Ambient Air Quality Monitoring - outside the CPL

Name of the client: Corussteel International Limited, Visakhapatnam

Location of sampling: Melaguda

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER 2022

Date of monitoring	PM _{2.5} Limit 08 10 ⁶ /m ³	PM ₁₀ Limit 100 10 ⁶ /m ³	SO ₂ Limit 180 10 ⁶ /m ³	NO ₂ Limit 80 10 ⁶ /m ³
05.12.2022	34	51	9.3	11.8
08.12.2022	26	52	9.9	12.4
13.12.2022	34	50	9.6	11.3
16.12.2022	27	54	10.5	13.3
19.12.2022	30	52	10.3	12.8
23.12.2022	32	65	10.4	12.8
27.12.2022	29	58	9.3	11.7
Protocol	Government, CPCB standard	IS: 10361 PART 1: 2009	IS: 10361 PART 2: 2009	IS: 10361 PART 4: 2009

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants

Labs and Consultants

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CIL/049023

dt. 01.02.2023

Description of Test: Ambient Air Quality Monitoring inside the CFL

Name of the client: Carromworld International Limited, Visakhapatnam

Location of sampling: Gullapalem

Date of Collection: As per date given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
01.01.2023	18	43	7.7	9.9
03.01.2023	22	50	8.9	11.0
05.01.2023	24	54	9.7	13.5
07.01.2023	30	67	11.8	15.5
09.01.2023	32	64	11.0	17.9
10.01.2023	25	52	10.3	14.7
14.01.2023	28	58	10.3	13.6
Protocol	Gravimetric, CPCB method	ISIRI FAIR- 25 -1996	ISIRI FAIR- 1 -1991	ISIRI FAIR- 4 -1991

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLOWEan/CIL/ENR13

06.02.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Carromed International Limited, Visakhapatnam

Location of sampling: Mahagadla

Date of Collection: As per details given

Analysis Report for the Month of JANUARY 2023

Date of monitoring	PM _{2.5} Limit 45 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
01.01.2023	20	55	8.4	12.9
03.01.2023	20	58	10.2	15.3
05.01.2023	26	55	9.5	12.8
11.01.2023	36	88	10.7	15.5
15.01.2023	24	62	9.5	13.3
20.01.2023	31	62	10.0	15.1
24.01.2023	28	56	10.0	13.3
Protocol	Gravimetric, CPC method	ISIRI FARE, 25 - 2000	ISIRI FARE, 1 - 2000	ISIRI FARE, 4 - 2000

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TQC/V/Env/CIL/149223

dt: 01.03.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Comandul International Limited, Visakhapatnam

Location of sampling: Cellulose plant

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM2.5 Limit 60 µg/m ³	PM10 Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO ₂ Limit 80 µg/m ³
02.02.2023	29	44	8.0	13.8
04.02.2023	24	56	9.2	13.8
06.02.2023	27	55	10.4	15.6
08.02.2023	32	60	10.8	16.9
10.02.2023	34	65	11.5	19.5
16.02.2023	22	45	10.8	16.6
22.02.2023	25	53	9.7	18.1
Protocol	Gravimetric, CPC based	ISIRI FAN- 21-2000	ISIRI FAN- 2-2001	ISIRI FAN- 6-2009

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLOV/Env/CIL/13/0023

08/02/2023

Description of Test: Ambient Air Quality Monitoring outside the CFE.

Name of the client: Carwashnet International Limited, Visakhapatnam

Location of sampling: Madagala

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
01.02.2023	24	62	9.8	14.4
04.02.2023	18	56	10.5	16.4
06.02.2023	28	58	11.8	17.6
08.02.2023	18	60	11.2	18.5
14.02.2023	16	57	5.7	14.4
15.02.2023	16	60	11.2	17.5
21.02.2023	27	58	9.5	14.7
Method	Gravimetric, CPC method	ISO103 PART- 23 :2004	ISO103 PART- 2 :2001	ISO103 PART- 4 :2004

All values are given in µg/m³

For TEAM Labs and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CIL/08/0122

dt. 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CIL.

Name of the client: Commandat International Limited, Visakhapatnam

Location of sampling: G. Indrapaleni

Date of Collection: As per details given

Analysis Report for the Month of MARCH 2023

Date of monitoring	PM2.5 Limit 40 µg/m ³	PM10 Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
07.03.2023	21	42	7.2	18.2
09.03.2023	23	45	7.9	18.6
13.03.2023	24	55	8.5	15.3
15.03.2023	30	57	8.2	12.8
18.03.2023	32	62	9.8	12.7
22.03.2023	22	48	7.9	11.6
27.03.2023	28	54	8.2	12.3
Protocol	Green-memo, CPCB (2008)	IS:1182 Pt-01, 21-2009	IS:1182 Pt-02, 21-2009	IS:1181 Pt-05, 21-2009

For TEAM Lab and Consultants



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ANRI Accredited Laboratory**TEST REPORT**

Test Report No. TLLCV/En/CHE/05/0022

dt. 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the clients: Commaadai International Limited, Visakhapatnam

Location of sampling: Malagada

Date of Collection: As per details given

Analysis Report for the Month of MARCH 2023

Date of monitoring	PM2.5 Limit 01 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 03 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 08 $\mu\text{g}/\text{m}^3$
07.03.2023	22	47	7.5	9.9
09.03.2023	24	50	0.0	11.0
13.03.2023	25	55	0.4	13.2
15.03.2023	30	60	0.1	13.5
20.03.2023	25	55	0.6	13.2
22.03.2023	31	69	0.3	12.8
27.03.2023	29	59	8.2	11.6
Protocol	Green Book, CPCB (2008)	IS1182 PART- 32 : 2009	IS1181 PART- 1 : 2000	IS1181 PART- 6 : 2004

All values are given in $\mu\text{g}/\text{m}^3$

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