

NCL INDUSTRIES LIMITED CEMENT DIVISION



AN ISO 9001 : 2015 COMPANY CIN : L33130TG1979PLC002521

NCL/QC/ 2020-21/189

Date: 19.05.2020

The Director (S), Regional Office (south Eastern Zone), Government of India, Ministry of Environment & Forest and Climate Change, 1st 2nd Floor, HEPC Building, No.34, Cathedral Garden Road, <u>Nungambakkam, Chennai – 600034.</u>

Dear Sir,

- Sub: Submission of Six month Compliance Report of the Environment Clearance accorded to M/s. NCL Industries Ltd, Simhapuri, Nalgonda (Dt), Telangana.
- Ref: 1. Expansion of Cement Plant Environment Clearance: F. No: J- 11011/576/2008-IA II(I), Dated: 28.10.2016.
 - 2. Cement Plant & Lime stone Environment Clearance: F.No: J-11011/576/2008-IA II (I), Dated 15.12.2009.

We submit herewith the conditions wise Compliance Status Report for the above referred Environment Clearances accorded by the MoEFCC along with test reports of Ambient Air Quality, Fugitive Emission, Stack Monitoring and Noise levels, Water & Waste Water Analysis Reports and Ground Water Level Monitored by accredited third party laboratory M/s. Lawn Enviro Associates for the period **October to March 2020** for the kind information.

Thanking you,

Yours Faithfully,

For NCL INDUSTRIES LTD.,

R. Univerest

PRESIDENT (WORKS)

- Encl: 1. Compliance Status Report of F. No: J- 11011/576/2008-IA 11(I), Dated: 28.10.2016. along with Monthly Monitoring Reports.
 - 2. Compliance Status Report of F. No: J- 11011/576/2008-IA 11(I), Dated: 15.12.2009. along with Monthly Monitoring Reports.
- CC to : 1. Regional Directorate Bengalore, CPCB Zonal Office, A-Block, Nisarga Bhavan, 1st and 2nd Floors, 7th D Cross, Thimmaiah Road, Shivanagar, BENGALURU – 560079.
 - 2. The Environment Engineer, TSPCB Board, Regional Office, H.No.6-2-888/B, 2nd Foolr, Laxmi Complex, Near Clock Tower, NALGONDA 508001.
- Factory : Simhapuri, Mattapalli Village, Mattampalli Mandal, Suryapet Dist.,-508 204, T.S. Tel : 08683-227630, Fax: 08683-227629 E-mail : nclworks@nclind.com

6th & 7th Floor, NCL Pearl, Near Rail Nilayam S.D. Road, Secunderabad-500 026. India. Tel: 91-40-30120000, 29807868 / 69 Fax: 91-40-29807871, E-mail: ncl@nclind.com | www.nclind.com

NAGARJUNA CEMENT

	Six months Compliance Report for the Conditions Specified in E Vide Letter No: F. No: J- 11011/576/20	C Granted by MOEF
A	SPECIFIC CONDITIONS	DETAILS OF FOLLOWUP ACTION
i)	The project proponent should install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.	On-line stack monitoring equipments are installed in all major stacks ie; in all the Three Lines - Kiln Cooler & Coal mill and Cement mills. Equipment connected and uploading data to website of CPCI & TSPCB. In addition to these, two CAAQM stations also installed and connected to CPCB & TSPCB. Details & Photos are enclosed Annexure - I
ii)	The Standards issued by the Ministry vide G.S.R. No. 612 (E) dated 25 th August, 2014 and subsequent amendment dated 9 th May, 2016 and 10 th May, 2016 regarding cement plants with respect to particulate matter, SO2 and NOx shall be followed.	Being followed.
iiii)	Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control viz Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filters to coal mill and cement mill. Low NOx burners shall be provided to control NOx emissions. Regular calibration of the instruments must be ensured.	 Continuous stack monitoring equipments ar installed in all major stacks. SPM being controlled within the limits b installing following Pollution Control Equipments RABH for Kiln II /Raw Mill ESP for Coolers - I , II & III PJBH for Kiln I & Kiln III Low Nox burner installed in Kiln to Control Nox emissions. Bag Filters for Cement mills (Line I,II,III) Bag House for Coal mills I & II Bag Filters provide for all material transfer lines & LS Crushers, fine coal bins an silos, pre-heater top de-dusting equipments kiln feed extraction equipment & packin plants etc., 10.25MW WHR (Waste Heat Recovery Power Project will be established by usin existing Kiln and Cooler hot gases, Project work is under commissioning and th

		 consent for establishment (CFE) obtained from TSPCB. > SPM emissions will be reduced furthe after installation of WHR. > Load on ESP will be reduced and it will run more efficiently. > OrderNo:02/TSPCB/CFE/RO-NLG/HO/2019 Dt: 09/08/2019. The stack emission levels are within 30 mg/Nm3. Pollution Control Equipments Details enclosed Annexure – II
iv)	Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/kg of clinker.	Efforts are made to reduce power consumption o cement and thermal energy consumption of clinker
v)	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	Being followed, Third party approved by MOEF&CC is engaged to carry out emissions an Ambient Air Quality monitoring as per NAAC standards. The data collected are submitted to th Ministry's Regional Office at Bangalore, SPCB and CPCB regularly. Reports are enclosed Annexure –XII
vi)	AAQ Modeling shall be carried out based on the specific mitigative measures taken in the existing project and proposed for the expansion project to keep the emissions well below prescribed standards.	Being followed, Third party approved b MOEF&CC is engaged to carry out emissions an Ambient Air Quality monitoring as per NAAO standards. The data collected are submitted to th Ministry's Regional Office at Bangalore, SPCB an CPCB regularly. Reports are enclosed Annexure –XII
vii)	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guide lines /code of practice issued by the CPCB in this regard shell be followed.	Secondary fugitive emissions from all the source are controlled and the parameters are within th latest permissible limits. The Analysis Data i submitting regularly to CPCB & TSPCH Annexure -XII
viii)	A statement on carbon budgeting including the quantum of equivalent CO2 being emitted by the existing plant operations, the amount of carbon sequestered annually by the existing green belt and the proposed green belt and the quantum of	Area of the cement plant is 48.12 ha. Out of thi 36.12 % i.e., 17.38 ha have already brought unde Greenbelt. In addition to this extensive plantation activity is taken up in the Mines area, School, colony and

	equivalent CO2 that will be emitted due to the	available vacant places. The survival of saplings
	proposed expansion shall be prepared by the	good.
	project proponent and submitted to the Ministry	Green Belt Details enclosed Annexure -VI
	and the Regional Office of the Ministry. This	Cited Der Deuts cherosod Annexate
	shall be prepared every year by the project	
	proponent. The first such budget shall be	
	prepared within a period of 6 months and	
	subsequently it should be prepared every year.	
ix)	For the employees working in high temperature	
un)	zones falling in the plant operation areas, the total	Being followed.
	shift duration would be 4 hrs or less per day where	PPE are providing to works as per t
		requirements, arranging RO water for drinking
	the temperature is more than 50 degrees	
	centigrade. Moreover, the jobs of these	prevent dehydration.
	employees will be alternated in such a way that no	
	employee is subjected to working in high	
	temperature area for more than 1 hr continuously.	
	Such employees would be invariably provided	
	with proper protective equipments, garments and	
	gears such as head gear, clothing, gloves, eye	
	protection etc. There should also be an	
	arrangement for sufficient drinking water at site to	
	prevent dehydration etc.	
x)	Arsenic and Mercury shall be monitored in	Being followed.
л)	emissions, ambient air and water.	Denig followed.
	chilissions, amotent an and water.	
xi)	The coal yard shall be lined and covered.	Coal & Raw Material is stored in covered storage
		sheds. Photos are enclosed. Annexure – III
xii)	The project proponent shall prepare a report on	
	impact of project on surrounding reserve forests	
	within six months and will get it approved from	
	the State Forest Department. A copy of the same	
		Forest Department Permission Letter: RC. No:
	should be submitted to the Ministry and its	75/2017/S, Dated 27.11.2018 – Copy Enclosed
	Regional Office.	
xiii)	The project proponent shall take all precautionary	Annexure - IV
	measures for conservation and protection of wild	
	fauna found in the study area. A Wildlife	
	Conservation Plan specific to this project site shall	
	be prepared in consultation with the State Forest	
	and Wildlife Department. A copy of the	
	Conservation plan shall be submitted to the	
	Ministry and its Regional Office.	

xiv)	The project proponent will also provide the latest	Being Followed		
	status of the environmental compliances in respect of its existing plant.			
xv) Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored. xvi) Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression		Efforts are made to reduce impact of the transpo of the raw materials and end products on the surrounding environment including agricultur land. all the raw materials trucks are covered with a tarpaulin and are not overloaded, fly ash and transported in the closed containers only. Measures are taken for maintenance of vehicle used in mining operation. Vehicular emissions and kept under control and regularly monitored. Water sprinkling and dust suppression methods and adapted to control dust emission in the Plant Roads Mines Roads are carried out. Annexure – V		
xvi)	consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression	Efforts are made to reduce water consumption be using air cooled condensers. The STP out 1 Treated water used for Green belt development ar Roads wetting purpose to control dust emissions. The process water is recycled and no process water is discharged outside the factory. Annexure –V		
xvii)	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rain water harvesting arrangement for the roof to collection and storm water with proper drainag and settling pits are made in the cement plant ar the rain water is collected in the mine pit and this helping to recharge the ground water.		
cviii)	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment [Protection] Act, 1986.	No process effluent water is generated in factor We have STP in colony for treatment of Domest effluent 250KLD. The treated water used for greenbelt development in factory & colony. The wastewater & treated water, drinking wat analysis done by third party. The reports a submitting in SPCB regularly.		
xix)	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers/reprocesses only.	All the bag filter dust, raw material dust, clink dust & cement dust from pollution control device are recycled & reused in the process and used for cement manufacturing. Waste oil and batteries are e waste is stored and disposed to authorize recyclers/reprocesses. Sludge from domestic sources is used as manufacture		

		for green belt development.		
xx)	The kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes and other wastes including biomass, etc.			
xxi)	The proponent shall examine and prepare a plan for utilization of high calorific wastes such as chemical wastes, distillation residues, refuse derived fuels, etc as alternate fuels based on availability and composition. For this, the proponent shall identify suitable industries with such wastes and enter into an MOU for long-term utilization of such wastes as per the Environment (Protection) Rules, 1986 and with necessary approvals.	 CFO approval Obtained from State Pollution Board for utilization of indigenes pet coke. Amendment to CFO & HWA Order No: TSPCB/RCP/NLG/HO/CFO/2018 – 2563 Dated: 19.11.2018. We have entered in to MOU for Utilization of high calorific wastes i.e. Pet Coke from MRPL. 		
xxii)	Efforts shall be made to use the high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. The PP shall enter into an MOU with units with potential for generating hazardous waste and in accordance with Hazardous Waste Regulations and prior approval of the MPPCB.			
cxiii)	Green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area and along road sides etc. by planting native and broad leaved species in consultation with 10oal DFO, local community and as per the CPCB guidelines.	Area of the cement plant is 48.12 ha. Out of the 36.12 % i.e., 17.38 ha have already brought und Greenbelt. In addition to this we have already taken up extensive plantation activity in the Minarea & Schools, colony and available vaca places. Requested Forest department to allocate land for plantation. In all three mines also taken to plantation in consultation with local DFO. The plantation work and survival are good.		
		Green Belt Details enclosed. ANNEXURE – VI		
xxiv)	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	Being followedPresent Solar lighting arrangement made at Minin area. Arranged solar fencing along the factor boundary.ANNEXURE – VII		
xxv)	The project proponent shall provide for LED lights in their offices and residential areas.	Being followed Present LED Lights are used for all the Plant outside areas.		

xxvi)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.	 All the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for the Cement Plants are implemented. 1. Primary health center was established in plant premises and providing ambulance service for 24hrs. 2. Arranging regular heath checkup camps in nearby villages with free services. 3. Provided free education pre primary school to Jr College for employee children's and nearby villages. 4. Provided RO Plant for drinking water.
xxvii)	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constitution a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	The commitments made during Public Hearing are implemented.
xxviii)	In addition to the above provision of ESC, the proponent shall prepare a detailed CSR Plan for the next 5 years including annual physical and financial targets for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Skill Development and infrastructure etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net Profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of	 Company provided modern housing colony with all the facilities for employs & workers. A separate budget is kept for the occupational health surveillance within and outside the campus in the nearby villages. We are conducting medical camps in the surrounding villages by arranging outside doctors and are providing medicines to the patients. Providing dispensary facility and in case of emergency we are providing ambulance facility to the villagers. Free education is provided for employees' children & village peoples up to Jr College Annexure -VIII

	the Compliance Report to RO. The details of the	
	CSR Plan shall also be uploaded on the company	
	website and shall also be provided in the Annual	
	Report of the company.	
xxix)	A Risk Assessment Study and Disaster	Being followed
AAIA)	Preparedness and Management Plan along with	Denig Tonowed
	the mitigation measures shall be prepared with a	
	focus of Disaster Prevention and a copy submitted	
	to the Ministry's Regional Office, SPCB and	
	CPCB within 3 months of issue of environment	
	clearance letter.	
xxx)	To educate the workers, all the work places where	
		Educating the works on personal safety, hazard's a
	as a dust exposure area though the use of display	
		arranging Display signs boards and trainin
	associated health effects.	programs. Enclosed Photos ANNEXURE – VIII
xxxi)	Provision shall be made for the housing of	Being followed
	construction labor within the site with all	
	necessary infrastructure and facilities such as fuel	<u>5</u> .
	for cooking, mobile toilets, 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 the project.	
В	GENERAL CONDITIONS	DETAILS OF FOLLOWUP ACTION
i)	The project authorities must strictly adhere to the	The stipulations made by TSPCB are adhered
	stipulations made by the Telangana Pollution	regularly.
	Control Board and the State Government.	
ii)	No further expansion or modification of the plant	Being followed the guidelines of MoEFCC.
11)	shall be carried out prior approval of this Ministry	being followed the guidelines of woll ce.
	of Environment, Forests and climate Change	
	(MoEFCC)	
iii)	At least four ambient air quality monitoring	Being followed
	stations should be established in the downward	The ambient air quality and noise levels an
	direction as well as where maximum ground level	monitored regularly and the levels are within the
	concentration of PM10, PM2.5, SO2 and NOx are	limits. And the third party reports are submittin
	anticipated in consultation with the SPCB. Data	regularly to ministry including its Regional offic
	on ambient air quality and stack emission shall be	at Chennai and the SPCB/CPCB once in si
		months regularly
	regularly submitted to this ministry including its	
	Regional office at Chennai and the SPCB/CPCB	Reports Enclosed – Annexure XII
	once in six months	

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iv)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended form time to time. The treated wastewater shall be	No process effluent water is generated in factory. We have STP in colony for treatment of Domestic effluent 250KLD. The treated water used for greenbelt development in factory & colony.
v)	utilized for plantation purpose. The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) 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 EPA Rules, 1989 viz.75dBA (day time) & 70dBA (Night time).	The overall noise levels in and around the plant area is 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 are monitored at Five locations during day and night time the noise levels are within the limits. Reports Enclosed Annexure – XII
vi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories Act.	Occupational health surveillance (OHS) program is done on a regular basis & records are maintained as per the factories Act. Annexure – VIII
vii)	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting arrangement for the roof top collection and storm water with proper drainage and settling pits are made in the cement plant and the rain water is collected in the mine pit and this is helping to recharge the ground water Annexure –V
viii)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio- economic development activities in the surrounding villages like community development programmers, educational programmers, drinking water supply and health care etc.	Conducting medical camps in the surrounding villages by arranging outside doctors and are providing medicines to the patients. Providing dispensary facility and in case of emergency we are providing ambulance facility to the villagers. And supplying RO water for Drinking in the surrounding villages. Free education is provided for employee's children &village peoples up to Jr College. Annexure VIII
ix)	Requisite funds shall be embarked towards the total capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of environments, Forest and climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chennai. The funds so provided shall	Being followed The funds have been embarked towards the total capital cost & recurring cost/annum for environmental pollution control measures. The funds earmarked have not been diverted for any other purpose.

	not be diverted for any other purpose.	
x)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zillah Perished/ Municipal Corporation, Urban Local Body & the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearances letter shall also be put on the web site of the company by the proponent.	A copy of the EC was sent to Panchayat.
xi)	The project proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent the Regional Office of MOEFCC at Chennai, The respective Zonal Office of CPCB & the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored & displayed at a convenient location near the main gate of the company in the public domain.	Uploaded the status of compliance of the stipulated EC conditions, including results of monitored dat on their website & updating the same periodically The monitored data has displayed at the main gate. company's web site <u>https://nclind.com/environmental-statement.html</u> The monitored data has displayed at the main gate Annexure –IX
xii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both the copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB. And the SPCB The Regional Office of this Ministry at Chennai / CPCB / SPCB shall monitor the stipulated conditions.	Submitting six monthly compliance reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both the copies as well as by e mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB. The Regional Office of this Ministry at Chennai / CPCB TSPCB shall monitor the stipulated conditions Enclosed the copy of EC submitted letter Annexure – X
xiii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State PCB as prescribed under the Environmental (Protection) Act, 1986, as amended subsequently, shall also be put on the website of the company along with the status of	Form V Submitting to TSPCB and also uploaded in company's web site https://nclind.com/environmental-statement.html Annexure – XI

	compliance of environmental conditions & shall	
	also be sent to the Regional Office of the	
	MOEFCC at Chennai by e-mail.	
xiv)	The project proponent shall inform the public that project has been accorded environmental clearance by the Ministry & copies of the clearance letter are available with the SPCB and may also be seen at web site of the Ministry of environment, Forests and Climate Change (MoEFCC) at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers 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 Regional Office.	News paper advertisement in two local new papers namely The Hindu & Andhra Jyothi an submitted the copy of same to MoEFCC, RO.
xv)	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 commencing the land development work.	The date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work was informed to RO as well as the Ministry.

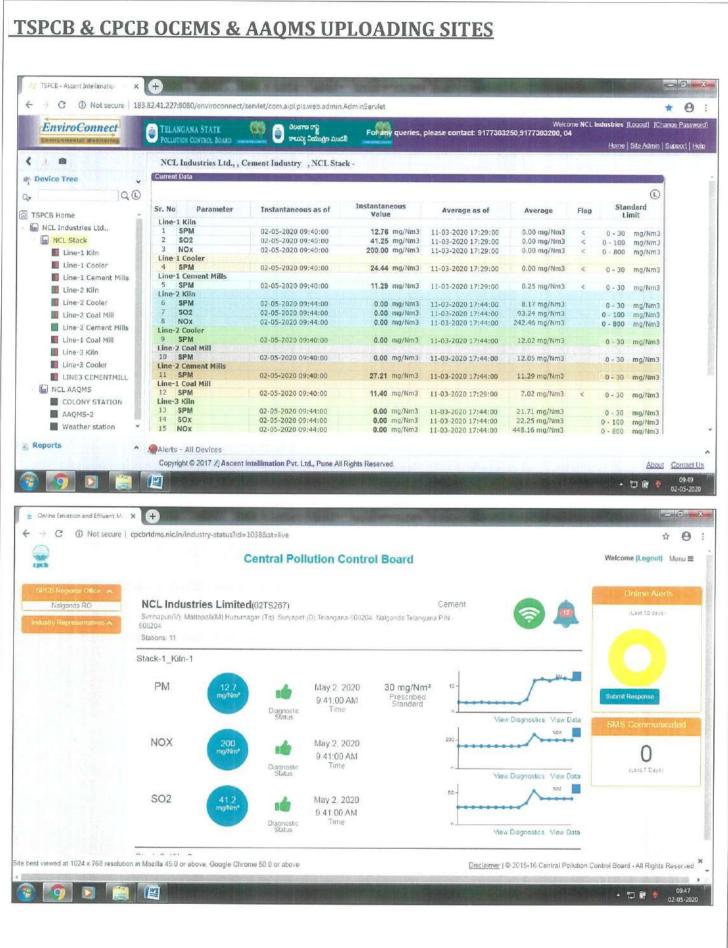


ANNEXURE I

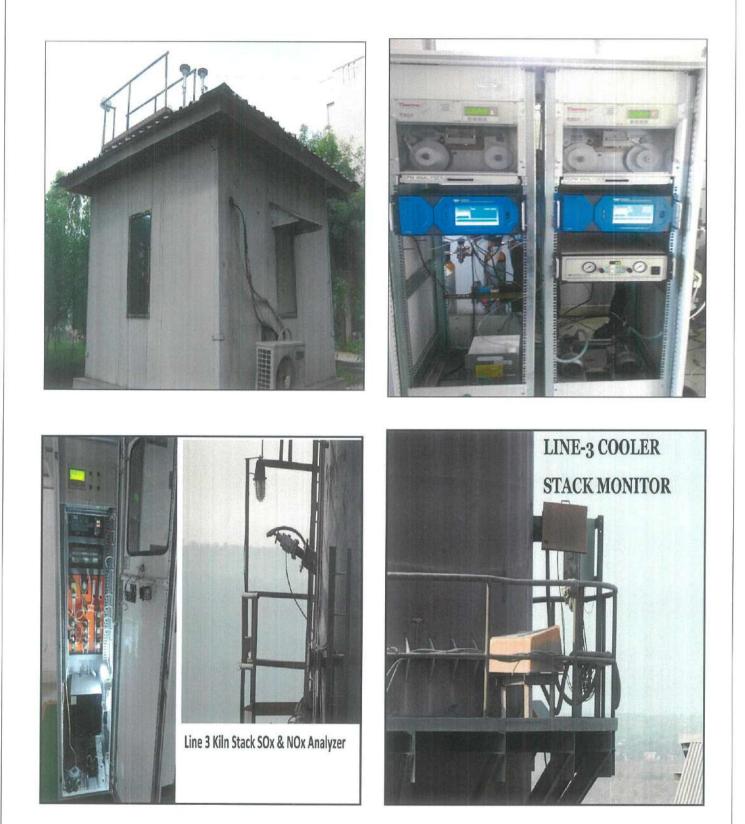
NCL INDUSTRIES LIMITED: SIMHAPURI

On-line Continuous Stack Monitoring System (OCSEMS) and Continuous Ambient Air Quality Monitoring Systems (CAAQMS) Stations

Stack attached	Type of Monitoring System (Emission / Effluent / CAAQMS)	Stack ID			
Line-1 Kiln	Emission	NCL Industries Limited-Stack_1_Kiln_1			
Line-1 Cooler	Emission	NCL Industries Limited-Stack_4_Cooler_1			
Line-1 Cement Mills	Emission	NCL Industries Limited-Stack_9_Cement Mill_1			
Line-1 Coal Mill	Emission	NCL Industries Limited-Stack_7_CoalMill_1			
Line-2 Kiln	Emission	NCL Industries Limited-Stack_2_Kiln_2			
Line-2 Cooler	Emission	NCL Industries Limited-Stack_5_Cooler_2			
Line-2 Coal Mill	Emission	NCL Industries Limited-Stack_8_CoalMill_2			
Line-2 Cement Mill	Emission	NCL Industries Limited-Stack_10_CementMill_2			
Line-3 Kiln	Emission	NCL Industries Limited-Stack_3_Kiln_3			
Line-3 Cooler	Emission	NCL Industries Limited-Stack_6_Cooler_3			
Line-3 Cement Mill	Emission	NCL Industries Limited-Stack_11_Cement Mill_3			
Colony	CAAQMS	NCL Industries Limited-CAAQMS_01_Colony			
Cement Plant	CAAQMS	NCL Industries Limited-CAAQMS_02_CementPlant			
	Line-1 Kiln Line-1 Cooler Line-1 Cement Mills Line-1 Coal Mill Line-2 Kiln Line-2 Cooler Line-2 Cooler Line-2 Cement Mill Line-3 Kiln Line-3 Cooler Line-3 Cement Mill	Effluent / CAAQMS)Line-1 KilnEmissionLine-1 CoolerEmissionLine-1 Cement MillsEmissionLine-1 Coal MillEmissionLine-2 KilnEmissionLine-2 CoolerEmissionLine-2 Coal MillEmissionLine-2 Coal MillEmissionLine-3 CoolerEmissionLine-3 CoolerEmission			



CAAQMS IN COLONY



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NCL INDUSTRIES LIMITED: SIMHAPURI Source of Pollution and Details of Air Pollution Control System Stack Height Source of Pollution **Pollution Control** S.No in Mts above **Equipment Provided** GL Attached to Kiln -1 & Raw Mill-1 Pulse Jet Bag Filter 110 1 Attached to Kiln -2 & Raw Mill-2 2 RABH 140 Attached to Kiln -3 & Raw Mill-3 130 3 Pulse Jet Bag Filter Attached to Cooler-1 ESP 55 4 5 Attached to Cooler- 2 ESP 55 Attached to Cooler -3 6 ESP 55 7 Attached to Coal Mill-1 30 **Bag Filter Bag Filter** Attached to Coal Mill-2 8 50 **Bag Filter** 9 Attached to Cement Mill-1 30 Attached to Cement Mill-2 **Bag Filter** 39 10 Attached to Cement Mill-3 **Bag Filter** 55 11 12 Attached to Packer-1 **Bag Filter** 30 13 Attached to Packer-2 **Bag Filter** 30 14 Attached to Packer-3 **Bag Filter** 30 Attached to Lime Stone Crusher **Bag Filter** 30 15 Attached to Blending Silo Top Bag Filter 55 16 17 Attached to Pre heater Top Bag Filter 116 18 Attached to 2875 KVA DG Set Silencer 10

Silencer

Attached to 300 KVA DG Set (Stand By)

19

ANNEXURE - II

10

S.No	Group	Application	Eqpt No.	Tag	Capacity m3/hr	No of Bags	Bag Size in Mtrs	Rateo KW
			LINE	E 1				
1		Preheater Vent - Bucket Elevator TOP	ТМ	BF	10000	54	0.146 x 3.05	15
2	Kiln	Kiln Feed Venting BF2 - TM1	TM1	BF2	10000	60	0.147X3.616	15
3	-	Preheater Bucket Elevator Bottom	TM1	BF1	6000	48	0.125X2.200	5.5
4	РЈ В Н	Pulse Jet Bag House	131	BH1	245000	1280	0.149X8.095	560
5	Cooler	ESP			255000	NA	NA	225
6		Mill Bag Filter (Vent)	Big	BF1	25020	210	0.147X3.050	110
7	Coal Mill	Hopper Bag Filter	Small	BF2	10000	90	0.147X3.050	110
8		Coal Pumping	New	BF3	8000	60	0.149 x 3.660	15
9		Vent Bag Filter		BF1	24240	90	0.146 x 3.050	55
10	Raw Mill 3	Classifier Bag Filter		BF2	8180	60	0.146 x 3.05	15
11		Silo Top	TM1	BF	10000	60	0.146 x 3.05	15
12	Cement Mill	Mill Bag Filter			45000	540	0.146 x 3.05	160
13	Packing Plant	Packer			15000	125	0.125 x 2.8	22
			LINE	2				
14	Line-2 Crusher	Vent bag filter	211	BF 1	35000	192	0.149 X 3.660	75
15	crusher	Discharge at 211BC5	211	BF2	20000	108	0.149 X 3.66	5.5
16		Discharge at 211BC4	211	BF3	6000	49	0.125X2.5	5.5
17	VRM	additive hoppers top	351	BF1	20000	120	0.150 X 3.6M	22
18	15-14-2 446, 704 (TS-11	B/F at 351BC1	351	BF2	6000	49	0.150 X 3.6M	5.5
19		Recirculation bucket elevator	361	BF1	27500	168	0.150 X 3.6	37
20	VRM	Silo bucket elevator	371	BF1	16500	100	0.150 X 3.6	30

21	RABH	VRM Bag House	431	BH1	640000	1680	0.292 X 10.8	500
22	B.Silo &	Blending Silo TOP	412	BF1	11000	64	0.150 X 3.6	22
23	KILN FEED	Blending Silo	422	BF1	5500	36	0.150 X 3.6	15
24	Pyro	Pre heater top	422	BF2	8800	36	0.150 X 3.6	15
25	process	Clinker Silo Top	491	BF1	8000	36	0.150 X 3.6	11
26	Cooler	ESP Vent Fan	471	FN8	NA	NA	NA	200
27	Coal Mill	ВН Тор	482	BF2	8800	54	0.150 X 3.6	15
28		Vent B F screw conveyer	482	BF3	16500	54	0.150 X 3.6	15
29	-	Mill Bag House	462	BH1	145200	1320	0.150 X 3.6	550
30	C & CT	Clinker Extraction BC1, 2	511	BF1	3300	54	0.150 X 3.6	11
31	Cement Mill	Transfer tower BC3 & BC4	511	BF2	3300	54	0.150 X 3.6	5.5
32	Cement Mill	Dedusting Bag filter fan at hopper top	531	BF1	10000	36	0.150 X 3.6	11
33		Clinker Hopper Discharge top	531	BF2	5500	36	0.150 X 3.6	11
34		Venting feeder	561	BF3	3300	54	0.150 X 3.6	55
35		Separator vent	561	BF2	21300	168	0.150 X 3.6	250
36		Cement mill vent Bag Filter	561	BF1	45483	448	0.149 x 4.5	75
37		Dedusting Bag Filter Fan	561	BF4	11000	60	0.150 X 3.5	15
38		Fly ash Silo Top	591	BF5	1000	36	0.150 X 3.6	15
39		Fly ash Silo Discharge	591	BF6	5500	36	0.150 X 3.6	11
10	Packing	Cement Silo Top	611	BF1	6600	36	0.150 X 3.6	11
11	Plant	Big Bag Filter	611	BF2	27500	168	0.150 X 3.6	37
12		Packer vent Bag Filter	611	BF3	16500	100	0.150 X 3.6	22
			Line	: 3				
43	Kiln feed Kiln feed	Vent bag filter for bin feed	411	BF1	10000	76	0.149 x 3.665	15
14		Vent bag filter for Kiln feed	411	BF2	14500	110	0.149 x 3.665	22
45		Vent bag filter for Kiln feed B/E hood,431 AS3	431	BF1	4000	30	0.149 x 3.665	7.5

								· · · · ·
46	Cooler	Vent bag filter for cooler discharge DPC	471	BF1	3500	30	0.149 x 3.665	5.5
47	1	Vent bag filter for 491	491	BF1	18600	144	0.149 x 3.665	30
48	Clinker	Vent bag filter for 491	491	BF2	17600	140	0.149 x 3.665	22
49	transport	Vent bag filter for 491	491	BF3	7300	56	0.149 x 3.665	11
50		Vent bf for 491 DP4	491	BF4	7300	56	0.149 x 3.665	11
51		Vent bag filter for 491 BC1 discharge, 491 BC2	491	BF5	10500	80	0.149 x 3.665	15
52		Vent bag filter for 511 BC3 discharge hood,	491	BF6	6300	48	0.149 x 3.665	11
53		Vent bag filter for 511 BC3A discharge hood,	491	BF7	6300	48	0.149 x 3.665	11
54		Vent bag filter for 511 BC3B discharge hood,	491	BF8	10500	80	0.149 x 3.665	15
55	PJBF	Vent bag filter for PJBH dust extraction air slides and Hot meal bin, SFM	432	BF1	13400	100	0.149 x 3.665	22
56	Coal	Vent bag filter for fine coal bin L91 BI1	L91	BF1	3000	24	0.149 x 3.665	5.5
57	Dosing	Vent bag filter for Fine coal bin L91 BI2	L91	BF2	3000	24	0.149 x 3.665	5.5
58	Cement grinding	Vent bag filter for Cement mill weigh feeders	531	BF1	9600	80	0.149 x 3.665	15
59		Vent bag filter for 531 BC2	531	BF2	5700	48	0.149 x 3.665	11
60		Vent bag filter for Cement mill hoppers	531	BF1A	17600	140	0.149 x 3.665	22
61		Vent bag filter for 521 BC1 feed point	521	BF1	3000	24	0.149 x 3.665	5.5
62		Vent bag filter for 521 BC1 disc. hood & 521 BC2 feed board	521	BF2	6000	48	0.149 x 3.665	11
63		Vent bag filter for cement mill re-circulation	571	BF1	8250	64	0.149 x 3.665	15
64		Vent bag filter for 591 AS	591	BF1	5000	40	0.149 x 3.665	7.5
65	Cement	Cement mill vent BF	561	BF1	58000	448	0.149 x 4.565	110

66	grinding	Separator vent bag filter	581	BF1	27000	210	0.149 x 4.565	410
67	Cement	Vent bf for silo top	611	BF1	7500	64	0.149 x 3.665	11
68	silo	Vent bag filter for collecting bin	611	BF2	3500	30	0.149 x 3.665	5.5
69	Packing	Vent bag filter for bucket elevator & air slide	611	BF3	5000	40	0.149 x 3.665	5.5
70	Plant	Roto-Packer vent bf	641	BF1	34000	266	0.149 x 3665	15
71		De-dusting bag filter	641	BF2	16000	140	0.149 x 3.665	45
72	Coal	Vent bag filter for bin	482	BF2	5000	40	0.149 x 3.665	11
73	conveying	Vent bag filter	L91	BF3	8000	64	0.149 x 3.665	11
74	РЈВН	Pulse Jet Bag filter for pre heater flue gases	432	BH1	490000	2560	0.160 x 8.0	800
75	Cooler	Cooler de-dusting	471	EP1	380000	NA	NA	200

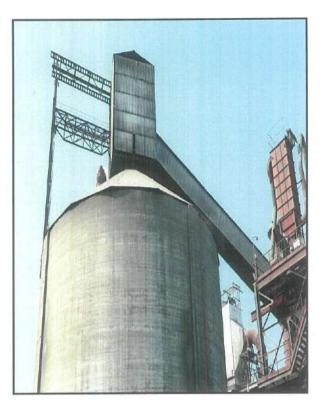


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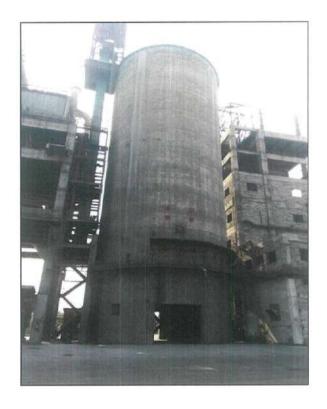
PRODUCTS STORAGE SILOS WITH BAG FILERS INSTALLED AT TOP

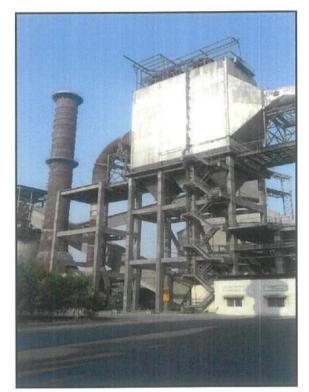
Line3 Clinker Silo

Line 3 ESP

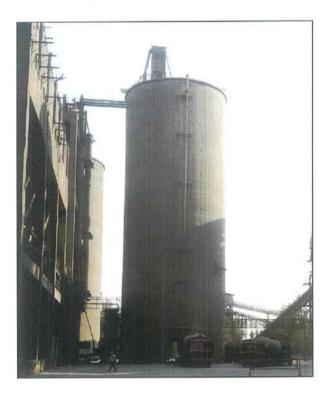


LINE 3 Cement Silo





LINE2 Fly Ash Silo



BAG FILTERS ARE INSTALLED AT TRANSFER TOWERS

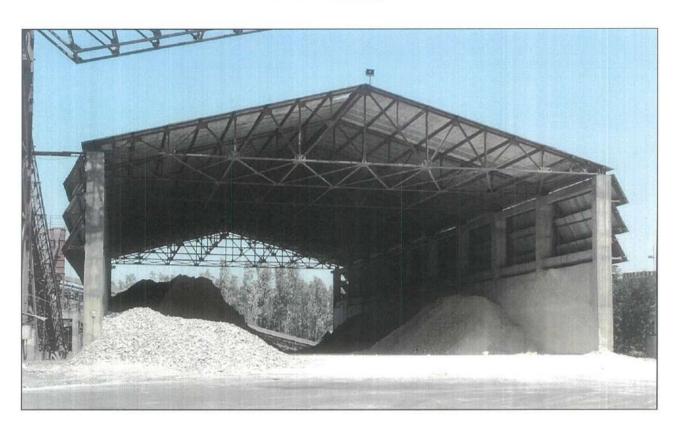


PJBH & RABH



Annexure -III

RAW MATERIAL STORAGE SHEDS





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COAL STORAGE SHEDS





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ANNEXURE -IV

FOREST DEPARTMENT PERMISSION LETTER

		FOREST DEP		111/1			
	From:	I tor a to have out a har through the	AR MALNI				
			To:				
		F	The Managing	Director		1	
	District Forest Officer,		M/s NCL Indu		*4	14	
	Suryapet.		Hyderabad.	suies Lu.,		+ 5+	
		RC.No.75/2017/S.					*
	Sir,	C.NO./ J/201//3,	01.27,11.2010				
	Sub: TSFD - TSPCB - Industries Ltd. stone Mine capa	RO - NLG - Envir has proposed for city from 0.05 MT Mattampally (M), S	enhancement of TPA to 1.0 MTPA	of Sulthanpur Th A located at Sy.1	anda Lime No.540 (P),	5	
		Ltd., Ref.No.NCL Ltd., Ref.No.NCL			200-00-00		1
	With reference to the	subject and refer	ence cited abo	ve the M/s NCL	Industries		
X	Ltd., had requested for Sta Thanda Lime Stone Mine pro Sy.No.540 (P), of Pedaveedu 42.83 Ha.	tus report for the oduction capacity	e proposal of e from 0.05 MTI	PA to 1.0 MTPA	Sulthanpur located in		
	The undersigned had i	nspected the minir	ng area togethe	r with Forest Ran	ge Officer		
	Huzurnagar 15 th September, 2						
	the Mining Lease area (With						
	extent of Ac. 105.32 gts (42.						
	District (Erstwhile Nalgonda						
	and Asst. Director of Mines &				ity manual		
		ocotogy, min yatagi	100 1103 0 00 000	in referred.			
	It is confirmed that:			.€ 33			
	 The said location does Reserve Forest about from the MoEF. 	170 meters and it	should comply	recent guideline	s/ Circular		
	There are no dispute i the panel cut portion areas which has to be	s is being dumped removed and in	d along road si	de even in Rese	rvę Forest		
	areas as per mine plan				C MINING WIND AMAZINE		
	 The area is completely Hence the green cover implemented 					1	
	implemented. 4. No perennial nallah or	stroams are seen	within the are-				37 -
	 There are no endange ecological nor econom only seen. 	red species of flo	ra existing in t	he area and it h			
	6. No sanctuary and natio	mal parks does not	exist within the	e above area.			
	Hence, it is inform tha	t. there are no iso	ues for enhance	ment of Sulthann	ur Thanda		
	Lime Stone Mine production						
	(P), of Pedaveedu (V), Mattam						
	(.), at the anti-basis (r)) mattain	seen full suitable	s segure in mint	e seure alea of 4/	source.		
		R	Ĩ	District Forest Off Suryapet.	ficer,		
				on Jahar	1		
	~						
					23		

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Annexure -V

PRECURSORY MASSEURS TAKEN FOR REDUCE WATER CONSUMPTION



RAIN WATER STORAGE IN MINESRAIN HARVESTING PITS



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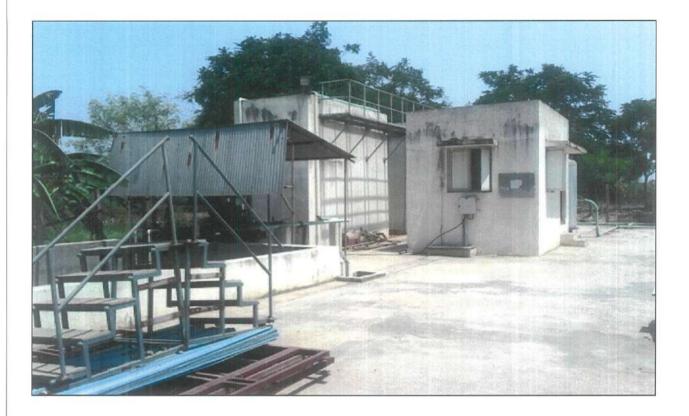
RO REJECT WATER STORING & USING FOR PLANTATION & ROAD WETTING



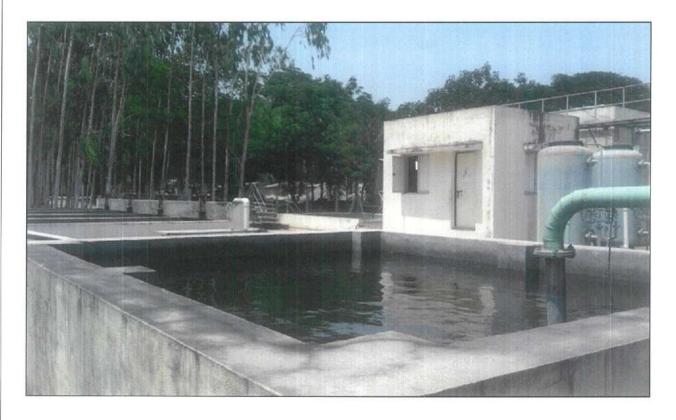
WATER DRIPPING ARRANGEMENT



SEWAGE TREATMENT PLANT (STP) IN COLONY



STP TREATED WATER USED FOR GREEN BELT DEVELOPMENT



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ROAD WETTING WITH WATER TANKER AT MINES ROADS



ROAD ARE CLEANING WITH ROAD SWEEPING MACHINE



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TRUCKS ARE COVERED WITH TARPAULIN & CLOSED CONTAINERS





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ANNEXURE -VI

GREENBELT DETAILS

S.No	Description	Area	Area	% Green Belt	
		Hectares	Acres		
1	Plant Built up Area	12	29.65		
2	Colony	8	19.77		
3	Green Belt	17.38	42.95	36.12%	
4	Roads	10.74	26.53		
	Total Plant & Colony Area	48.12	118.90		



IN HOUSE NURSERY DEVELOPED



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Green Belt at Colony & Plant



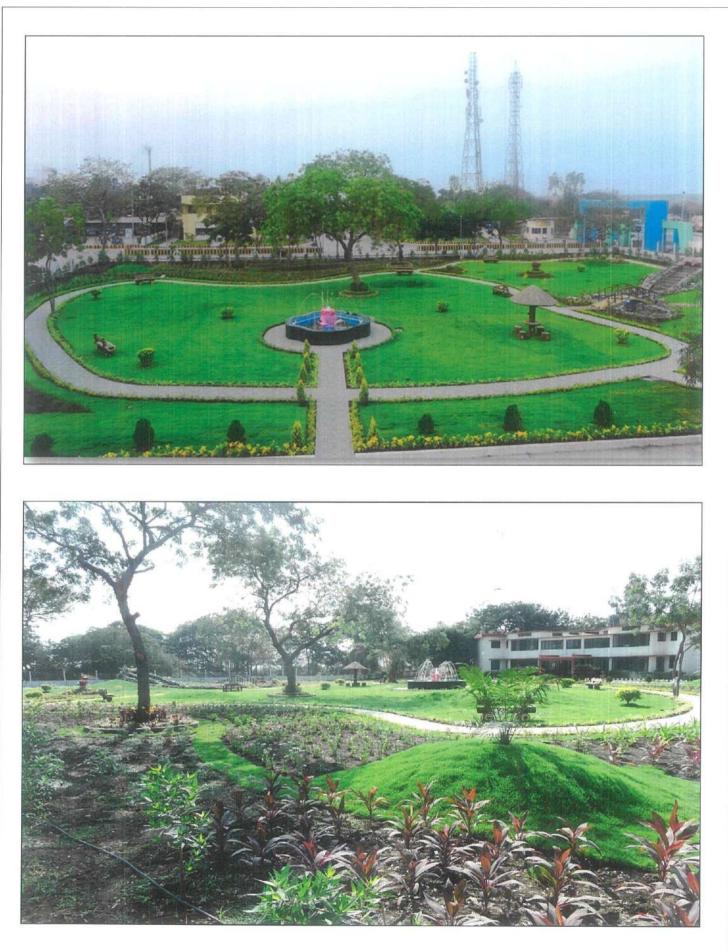


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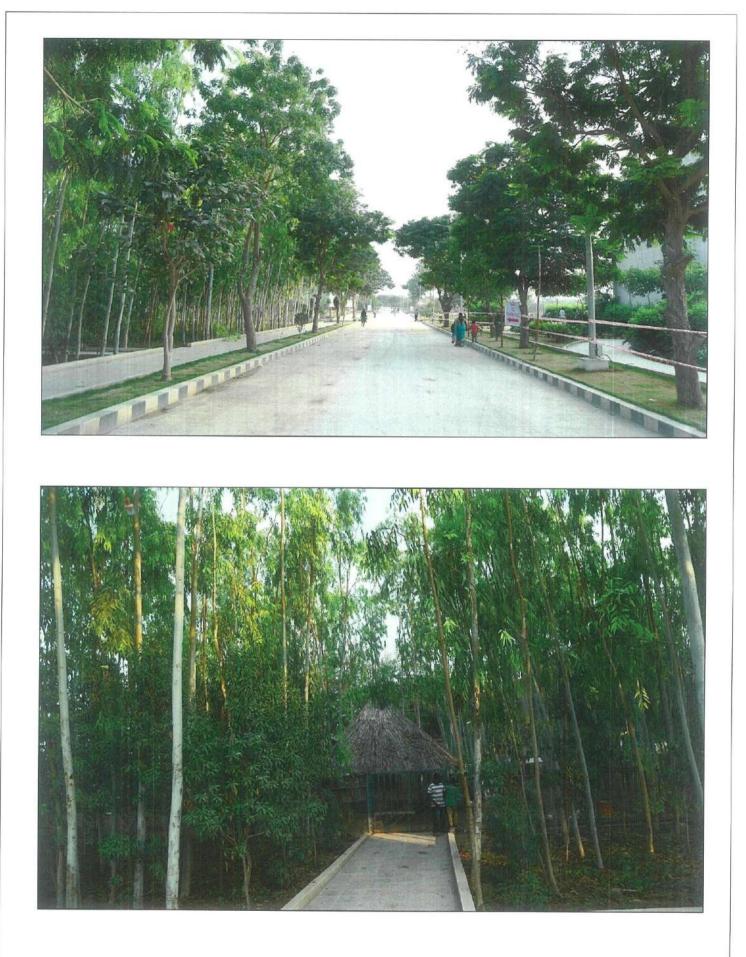


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ANNEXURE -VII

SOLAR PANEL LIGHTING SYSTEM



SOLAR POWERED TRAFFIC BLINKERS



SOLAR FENCING AT FACTORY BOUNDARY WALL

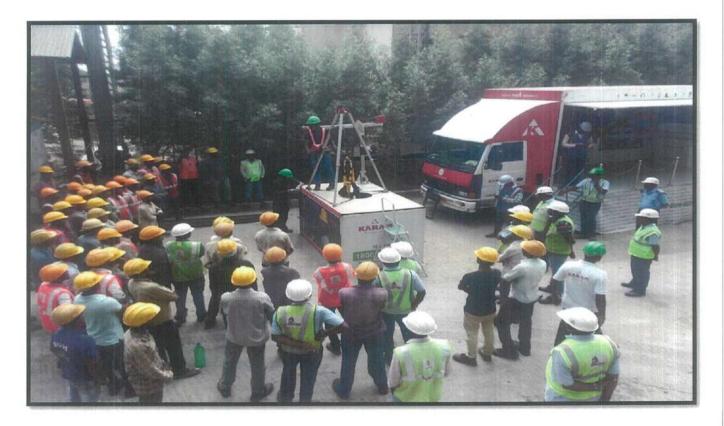


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ANNEXURE -VIII

PPE USAGE DISPLAY SIGNS BOARDS IN PLANT & TRAINING PROGRAMS





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PRIMARY HEALTH CENTER







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NCL HIGH SCHOOL & JR COLLEGE AT MATTAPALLY







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<u>Annexure – IX</u>

THE MONITORED DATA HAS DISPLAYED AT THE MAIN GATE



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ANNEXURE -X

Submission letter of EC – Compliance Reports for the Period of April to Sep 2019

200	CEMENT DIVISION	NCL GROUP
ON 9	AN ISO 9001 : 2015 COMPANY	BUL GROUP
	CIN : L33130TG1979PLC002521 NCL/QC/ 2019-20/	Date: 30.11.2019
	The Director (S), Regional Office (south Eastern Zone),	
	Government of India,	
	Ministry of Environment & Forest and Climate Change,	
	1 st 2 nd Floor, HEPC Building, No.34, Cathedral Garden Road, Nungambakkam, <u>Chennai – 600034.</u>	
	Dear Sir,	
	Sub: Submission of Six month Compliance Report of the Environm M/s. NCL Industries Ltd, Simhapuri, Nalgonda (Dt), Telangar	
	Ref: 1. Expansion of Cement Plant Environment Clearance:	
	F. No: J- 11011/576/2008-IA II(I), Dated: 28.10.2016. 2. Cement Plant & Lime stone Environment Clearance:	
	F.No: J-11011/576/2008-IA II (I), Dated 15.12.2009.	
	We submit herewith the conditions wise Compliance Status R Environment Clearances accorded by the MoEF along with test re Fugitive Emission, Stack Monitoring and Noise levels, Water & V and Ground Water Level Monitored by accredited third party l	eports of Ambient Air Quality, Vaste Water Analysis Reports laboratory M/s. Lawn Enviro
	Associates for the period April to September 2019 for the kind in Thanking you,	normation.
	Yours Faithfully,	
	For NCL INDUSTRIES LTD.	
	R. Mowell P	
1.5	PRESIDENT (WORKS)	
10	Encl: 1. Compliance Status Report of F. No: J- 11011/576/2008-L	A 11(I), Dated: 28.10.2016.
	along with Monthly Monitoring Reports.	1 + + /11 PL
	 Compliance Status Report of F. No: J- 11011/576/2008-1 along with Monthly Monitoring Reports. 	A 11(1), Dated: 15.12.2009.
	CC to : 1. Regional Directorate – Bengalore, CPCB Zonal Office, A-B	lock, Nisarga Bhavan,
	1st and 2nd Floors, 7th D Cross, Thimmaiah Road, Shivana	gar, BENGALURU – 560079.
	2. The Environment Engineer, TSPCB Board, Regional Office	
	Laxmi Complex, Near Clock Tower, NALGONDA – 50800	1.
	Factory : Simhapuri, Mattapalli Village, Mattampalli Mandal, Suryap Tel : 08683-227630, Fax: 08683-227629 E-mail : nclworks@	Pnclind.com
	6th & 7th Floor, NCL Pearl, Near Rail Nilayam S.D. Road, Secunder	abad-500 026. India.

ANNEXURE - XI

SUBMISSION LETTER OF ENVIRONMENT STATEMENT AUDIT REPORT - FORM V FOR 2018-19

			10
E.	ICL INDUSTRIES LIMITI	ED	NCL GROUP
	// REGISTE	RED POST A/D//	AN ISO 9001 : 2015 COMPANY CIN : L33130TG1979PLC002521
	NCL/ QC/2019-20 546	DT: I	8.09.2019
	То		
	The Member Secretary, TSPC Board, Paryavaran Bhavan, A-3, Industrial Estate, Sanathnägar, <u>HVDERABAD - 500 018</u> .	- ¹ 4	
	Sub: Submission of Environmental Sta	tement Audit Report F	orm - V for the Year 2018 -19.
	Ref: Amendment of CFO&HWA Orde Dated: 19/11/2018.	T No: - TSPCB RCP/b	RLG/HO/CFO/2018 - 2563;
	Dear Sir.		
ē	With reference to the above cited subj of Environmental Statement Audit Fe 2019.	ect, we are here with s from $-V$ for the financ	submitting three copies ial year ending March
	Kindly acknowledge the receipt of the	same.	
	This is fer your kind information.		
	Thanking you.		
	Yours faithfully,		
5	For NCL ENDUSERIES LIMITED & C. Surrul, 2 S. Challeddiars President, Works Encl: As closed		
	Copy to: The Environmental Engineer H.No.8-15,1 ^S Floor, Sri Lax Sri Vinayak Nagar, <u>NALGO</u>	mi Complex,Near RTA	A office.
	Factory : Šimhapuri, Mattapalli Villa Tel : 08683 – 227630, Fax:	ge, Mattampaili Mand 08683-227629 E-mail	al, Suryapet Dist., 508204, T.S. ; <u>nelworks@nelind.com</u>
10	Regd. & Corporate Office. NCL Pearl, 7th Floor. T 91-40-30120000, 2980 7868/59, Fax: 91	Near Rail Nilayam, S.D. Road -40-2980 7871, E-mail: ncl@r	Securicerabad-500 026 Telangana, India, iclind.com Website : www.nclind.com
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Plant View





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Annexure XII NCL INDUSTRIES LTD CEMENT DIVISION MATTAPALLY

STACK EMISSION DATA OCTOBER TO MARCH 2020

	-	-	7	-	-	-	-	T	-	-	-	-	-	-	-	-	,			-
Lime Stone Crusher -II	SPIM	5				22				25	23	}			24.6			VCC	1.77	23
Coal Mill -2	SPM				15			13				17	1				19.3	16.9	2.24	16
Coal Mill -1	SPIM					18			16			20					17.5		226	19
Packing Plant -3	SPM					20				17	22				20.4				17.8	19
Packing Plant -2	SPM					20				22			18		21.5			19.3		20
Cement Packing Packing mill -3 Plant -1 Plant -2	SPM					19				21			17		18.4			20.6		19
Cement mill -3	SPM					14			10			8					9.2		10	10
Cement mill -2	SPM				11			14					10.2				14.6	12.8		13
Cement mill -1	SPM				14			19					16	22.7						18
Cooler- 2 3	SPM	σ	,						12			11				10.2			12.8	11
	SPM				00	70			17			15				16.3		14.5		17
Cooler -1	SPM						vi .	£	D	ىب	σ	0	M	: =						
~	Nox		388			0.1.0	403					454				441			430	436
Kiln -3	So2		15			4	QT					16				10			œ	13
	SPIM		17			56	07					10			1	12.4			9.6	13
	Nox				VBC	104	1.10	21/				335			000	322	T	T	343	320
Kiln -2	So2				44	-		32			1	17				77			30	25
	SPM				18	2	CVL	7.4.Z			1	C.21			1 1 1	14'/			13.2	15
	Nox	Γ								c								here here		
Kiln -1	So2									Shutdown										
	SPM				-	_				45										Avg
Stack Attached to process		11.10.2019	12.10.2019	25.10.2019	26.10.2019	12.11.2019	20.11.2019	01111100	CT07.11.12	GTN7-TT-67	GT07-77-51	GT07.71.61	GT07.71.01	0202-T0-42	UCUC 10 8C	0707-T0-02	N2N2.10.62	22.02.2020	23.02.2020	



Annexure XII	NCL INDUSTRIES LTD	CEMENT DIVISION	MATTAPALLY	STP Waste Water Analysis Reports October to March - 2020	Sample Location Before Treatment STP After Treatment STP	Date bH TDS TSS COD ROD Oil & H TDS TSS COD ROD Oil & H TDS TSS COD ROD Oil & H	Grease	26.10.2019 7.76 830 155 242 46 1.4 7.69 742 37 51 7 <1.0	23.11.2019 7.28 808 146 234 42 1.8 7.84 778 42 56 9 <1.0	16.12.2019 7.54 821 163 220 40 1.6 7.42 753 40 59 12 <1.0	29.01.2020 7.42 885 150 241 47 1.9 7.58 784 46 63 10 <1.0	23.02.2020 7.63 862 141 232 43 1.5 7.86 769 42 68 13 <1.0	Avg 7.53 841 151 234 44 1.6 7.68 765 41 59 10 <1.0	-
					Sample Loca	Date		26.10.201	23.11.201	16.12.201	29.01.202	23.02.202	Avg	

.

ANNEXURE - XII NCL INDUSTRIES LTD CEMENT DIVISION MATTAPALLY

AMBIENT AIR QUALITY DATA OCTOBER TO MARCH 2020

Date / Location		Near S	Near Security			Near C	Near Colony		2	Near Guest House	st House			Near Time Office	e Office	
Parameter (μg/m³)	PM ₁₀	PM _{2.5}	50 ₂	Nox	PIM ₁₀	PM _{2.5}	SO ₂	Nox	PM ₁₀	PM _{2.5}	50 ₂	Nox	PIM ₁₀	PM _{2.5}	50 ₂	Nox
25-10-2019	62	30	13	23	63	24	6	18	51	19	10	15	CC	21	,	00
10-10-2019	72	27	12	25	56	21	44	10	AC AC		1 5		6	3	,	70
05.11.2019	77	32	14	27	58	23	10	11	04			qT	58	21	6	22
20.11.2019	73	27	12	25	26	20	2	T-7		N7	ה ו	21	63	24	12	20
14.12.2019	70	26	14	77	202	10	0 4	77	0	77	٥	16	68	23	11	22
01 12 2010	75	00		10		OT	OT	77	75	15	00	18	63	21	13	23
	C/ 5	70	77	24	54	21	თ	19	45	100	7	17	60	22	10	27
0707.10.51	69	25	13	26	60	20	11	23	47	16	00	15	64	23	17	100
27.01.2020	75	28	11	24	63	22	6	19	50	17	F	10	5 5		77	2
07.02.2020	73	29	10	22	56	18	~	17	42	11		DT OC	10	24	DT I	21
22.02.2020	68	25	13	23	ED	00		Lx	7	CT	m	20	P7	17	11	24
4			-	12	00	20	٥	q	54	18	80	18	65	23	12	20
Avg	12	27	12	25	58	20	9	19	47	17	00	17	63	22	11	22
														1	1	1



Annexure XII NCL INDUSTRIES LTD CEMENT DIVISION MATTAPALLY

FIGITIVE EMISSION DATA OCTOBER TO MARCH 2020

Location			C	Coal Transport	uspor	4					Cemei	nt Mill	Cement Mill Transport	port					VRI	VRM Silo Top	Top			-		NDV	N Add	VIDM Addition Ecoline	adina		
Direction	AAF	Wind Wood Dissestor	Discontin	1		a presente						F				+				-				-					Suma		
IIIIIII			חשבתו			Leewarg Direction	Directio	-	NA I	Wind Ward Direction	Directio	E	Lee	eWard D	eeWard Direction		Wind	Wind Ward Direction	lirection		Leew	LeeWard Direction	ction		Wind W	Wind Ward Direction	tion		LeeWard Direction	Directic	uo
Parameter (µg/m³)	PM _{1c}	PM2.5	502	Nox	PM ₂₀	PM _{2.5}	50 ₂	Nox	PM26	PML	502	Nox	PM ₁₀	PM _{1.5}	50 ₂	Nox P.	PM10 P	PM2 5	so, N	Nex Ph	PM. Ph	PM 50.	Nov	N DBA	-		Now	+			1
24.10.2019	5	23	4	18	76	28	12	10			1	T		1	t	+	+	-	+	+	+	4	-	+	Signer B	ine	Ynai	etm10	E-TIMIA	305	NON
26.10.2019					T	-		24	1.1	1							63	20	9 9	22 7	71 2	26 13	3 26								
2011 2014		T	T	Ì		T	T	I	0	52	-	00	70	25	10	21	_							23	20	2.5	10	;	-		1
CTAT I I I									63	21	11	23	72	28	13	35	-			1				8	17	13	17	/4	30	11	23
21,11,2019	11	36	10	22	19	31	13	25								+	1	+	+	+	+			-			1				
15.12.2019									en	40	0		1			+	b/	24	11 2	20 2	2 52	28 15	5 24	60	22	6	18	68	27	11	20
16.12.2019	99	23	00	31	7.4	32	11	35	2	44	0	-	10	40	10	20				-				24	20	~	16	65	36	10	20
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9.0	2	47	2	77	10	30	12	23	63	22	6	19	71	28	11	21 6	99	24	9 2	22 7	74 2	29 13	3 24	61	22	a	10	07	70		00



Annexure XII NCL INDUSTRIES LTD CEMENT DIVISION MATTAPALLY

NOISE LEVEL DATA OCTOBER TO MARCH 2020

Location	Kiln 1	n 1	Ki	Kiln 2	Cement	Cement Mills -1	Cement	Cement Mills -2	Raw Mill 2	Mill 2
Date	Levels in dB(A) Leq Day Time	Levels in dB(A) Leq Night Time	Levels in dB(A) Leq Day Time	Levels in dB(A) Leq Night Time	Levels in dB(A) Leq Day Time	Levels in dB(A) Leq Night Time	Le dB Da	Levels in dB(A) Leq Night Time	Levels in dB(A) Leq Day Time	Levels in dB(A) Leq Night Time
26.10.2019	70	65	72	67	69	64	68	63	10	5
21.11.2019	72	67	D7	60	02			0	10	70
0100 01 01	ſ			5	2	CO	69	64	68	63
14.12.2019	/3	68	74	69	68	63	67	62	70	65
28.01.2020	71	66	72	67	66	61	65	E0	CL	5
23.02.2020	70	65	73	68	69	54	67	20	C/	00
Avg	71	66	73	68	62		5	70	T/	00



	ANT AND MINES :: ENVIRONMENTAL CLE. Half Yearly EC Compliance Report for the pe MOEF Vide Letter No: Ref: F. No. J-11011/576	riod of October to March 2020
	WICEF VILLE Letter 140. Kel. F. 140. J-11011/5/0	/2000-1A 11 (1), Dateu 13.12. 2009
Α	SPECIFIC CONDITIONS	COMPLIANCE STATUS
i) ii)	 No construction work at the proposed project site shall be started without obtaining prior Clearances/approvals for the linked mining component from the Indian Bureau of Mines (IBM) and State Govt. of Telangana. A copy of all the mining lease approvals from IBM & State Govt. of Telangana shall be submitted to the Ministry & Regional Office at Bangalore initiating work at site related to mining. No construction work at the proposed project site shall be started without obtaining prior Clearances/approvals under the Forest (Conservation) Act, 1980 & subsequent amendments. 	 No construction work at the proposed project site was started without obtaining prior Clearances/approvals from the Indian Bureau of Mines (IBM) and State Govt. Obtained permission for three mines Mattapalli Lime Stone Mines G.O No 65 valid up to 13.10.2030, Gundlapally Lime stone Mines G.O No 65 valid up to 21.10.2040, Sulthanpur Thanda Lime stone Mines Ge No 63 valid up to 28.10.2046. A copy of all the mining lease approvals from IBM & State Govt. were submitted to the Minist & Regional Office at Bangalore before initiating work at site related to mining. No further expansion or modification will carried out without prior clearances/approv. under the Forest (Conservation) Act, 1980 subsequent amendments.
iii)	Possibilities shall be explored for the proper & full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) & a feasibility report shall be prepared & submitted to the Ministry & its Regional Office at Bangalore within 3 months from the date of issue of the letter.	10.25MW WHR Waste Heat Recovery pow project will be established by using existing k and cooler hot gases, Project work is und commissioning and the consent for establishme (CFE) obtained from TSPCB, CFE Order No: 02/TSPCB/CFE/RO NLG/HO/2019 Dt: 09/08/2019. Project Wo Photos are Enclosed as Annexure – I
v)	Continuous monitoring system to monitor gaseous emissions shall be provided & limit of SPM shall be controlled within 50 mg/Nm3 by installing adequate air pollution control system. Electrostatic Precipitator (ESPs) / Bag house shall be provided to Clinker cooler, Kiln and pre- heater waste gas equipment to control gaseous emissions with in 50 mg/Nm3. Bag filters shall be provided to raw mill, coal mill, cement mill, LS Crushers, fine coal bins and silos, pre-heater top deducting equipments, kiln feed extraction equipment & packing plant etc. The data collected shall be submitted to the Ministry's Regional Office at Bangalore, APPCB and CPCB regularly.	Continuous monitoring Systems and equipment are installed in all major stacks ie; in all the thr lines - Kiln, Cooler & Coal mill and cement mil Equipments connected and uploading data website of CPCB & TSPCB. In addition to the two CAAQM stations also installed and connect to CPCB & TSPCB The data SPM being controlled within the lim by installing following Pollution Contr Equipments > RABH for Kiln II /Raw Mill > ESPs for Coolers - I, II & III > PJBH for Kiln I & Kiln III

		➢ Bag Filters for Cement mills (Line I,II &III)
		➢ Bag House for Coal mills I & II
		➢ 10.25MW WHR Waste Heat Recovery
		power project will be established by using
		existing kiln and cooler hot gases, Project
		work is under commissioning and the
		consent for establishment (CFE) obtained
		from TSPCB.
		Bag Filters provided to for all material transfe
		lines & LS Crushers, fine coal bins and silos
		pre-heater top deducting equipments, kiln fee
		extraction equipment & packing plants etc.
		The stack emission levels are within 3
2	The Marine LA Shires All On The Ended on the Late	0
v)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No.826 (E) Dt. 16-11-	Being followed, As per NAAQ standards third
	2009 shall be followed.	party approved by MOEF & CC is engaged to
		carry out emissions & Ambient Air Quality
		monitoring. The data collected are submitted to
		the Ministry's Regional Office at Bangalore
		TSPCB and CPCB regularly.
		The third party monitored reports are enclosed
12		ANNEXURE-XII
vi)	Ambient Air Monitoring shall be carried out in the nearby villages & efforts shall be made to control & minimize the	Ambient Air Monitoring carried out in the nearby villages. Efforts are made to control & minimiz
	particulate matters to bare minimum. The company shall	the particulate matters to bare minimum. The
	install adequate dust collection & extraction system to	company has installed adequate dust collection &
	control fugitive dust emissions at various transfer points,	extraction system like Bag filters & Air slides to
	raw mill handling (unloading, conveying, transporting,	control fugitive dust emissions at various transfe
	stacking), vehicular movement, bagging and packing areas	points, raw material handling (unloading
	etc. Crusher shall be operated with high efficiency bag	conveying, transporting, stacking), vehicula
	filters. All conveyors shall be covered with GI sheets.	movement, bagging and packing areas etc
	Covered sheds for storage of materials shall be provided	Crusher is operated with high efficiency bay
	besides coal, cement, fly ash & Clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	filters and water spray system is provided a crusher dump hopper to control fugitiv
	shos. Fneumatic system shall be used for thy ash handling.	emissions. All conveyors are covered with G
		sheets. Covered sheds for storage of materials ar
		provided besides coal, cement, fly ash & Clinke
		is stored in silos. Pneumatic system is used for fl
		ash handling. Regular cleaning and water spraying
		is done to control the dust fugitive emission due to
		vehicular movement etc.
		The third party monitored reports are enclosed
	Popular water annialding shall be sami-d and in anitial	ANNEXURE-XII
vii)	Regular water sprinkling shall be carried out in critical areas prone to air pollution & having high levels of SPM & RPM	Regular water sprinkling is carried out usin water tankers in critical areas prone to an
	particularly in mine area & other vulnerable areas. It shall	pollution & having high levels of SPM & RSPM
	be ensured that the ambient air quality parameters conform	particularly in mine area & other vulnerable area
	to the norms prescribed by the CPCB in this regard.	and the levels are within the limits of norm
	Less states and the second states are second states and the second states are second states and the second states are se	prescribed by CPCB. ANNEXURE - III

viii)	Asphalting / concreting of roads, water sprinkling and dust suppression methods shall be adopted to control dust emission.	Asphalting / concreting of roads, water sprinklin and dust suppression methods are adopted to control dust emission in the cement plant area and carried out. ANNEXURE - III
ix)	Secondary fugitive emission from all the sources shall be controlled within the latest permissible limits issued by the Ministry & regularly Monitored. Guidelines / Code of Practice issued by the CPCB shall be followed & data submitted to Ministry's Regional Office at Bangalore, CPCB and TSPCB.	 Secondary fugitive emission from all the source is controlled and levels are within the later permissible limits issued by the Ministry Th monitored data are submitted to Ministry Regional Office. The secondary fugitive emissions are in control and within the prescribed limits as per the Guid lines /code of practice issued by the CPCB. Secondary fugitive emissions are being controlle by adopting the following techniques. a) Storing the raw materials and products in closed sheds. b) Regular water sprinkling is carried out or road. c) Road sweeping machines are being use for cleaning of roads regularly.
x)	Asphalting/ concreting of boards and water spray all around the critical areas prone to air pollution and having high levels of SPM & RPM shall be ensured.	Asphalting / concreting of roads, water sprinklin and dust suppression methods are adopted control dust emission at all around the critic areas prone to air pollution and having high leve of SPM & RPM in the cement plant area an carried out. ANNEXURE – III
xi)	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only covered with a tarpaulin and shall not be overloaded. Measures shall be taken for maintenance of vehicles used in mining operation of mineral. Vehicular emissions shall be kept under control and regularly monitored.	Efforts are made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultur land. All the raw materials including fly ash and transported in the closed containers only covered with a tarpaulin and are not generally overloade Measures are taken for maintenance of vehicle used in mining operation of mineral. Vehicult emissions are kept under control and regular monitored. ANNEXURE – III
xii)	Digital processing of the entire lease are using remote sensing technique shall be done regularly once in three years for monitoring land use pattern & report submitted to MOE&F Regional Office, Bangalore.	We are in the process of getting digital processin of the entire mine lease area.

xiii)	Total water from River Krishna shall not exceed 670 Cu.m/day as per the permission accorded by the concerned department. No ground water shall be used as proposed. The water stored in the artificial reservoir made in the mine pit shall be used maximum to reduce ground water consumption. No effluent shall be discharged from the mine to any water or nearby river. All the treated waste water from the work shop of mines shall be treated for oil & grease removal. Treated waste water shall be used in the process and/or for dust suppression, green belt development & other plant related activities etc. No process waste water shall be discharged outside the factory premises and zero' discharge shall be adopted.	Total water consumption from River Krishna has not been exceeded 900 Cu.m/day as per the CFO & HWA Order No: TSPCB/RCP/NCL/HO/CFO/2018-2563. Dated 19.11.2018. Permission from Irrigation & CAD is accorded to draw water from Krishna river for 4275 KLD. ANNEXURE – IV No ground water is used. The rain water is collected and stored in the mine pit which is helping to recharge the ground water. No effluent is discharged from the mine to any water or nearby river. All the treated waste water from the work shop of mines is treated for oil & grease removal. Treated waste water is used in the process and as well as for dust suppression, green belt development & other plant related activities etc. No process waste water is discharged outside the factory premises and zero discharge is being followed.
xiv)	Detailed hydrological study shall be carried out and implementation of recommendations of the detailed hydrological study shall be ensured.	Carried out detailed hydrological study, and implemented the recommendations.
xv)	Domestic waste water shall be treated in sewage treatment plant (STP) and treated domestic effluent shall be used for green belt development within the plant premises. Domestic waste from colony and STP shall be segregated into bio-degradable and non-bio degradable. Bio- degradable waste shall be composted & non-bio degradable waste shall be land filled at identified sites. ETP shall also be provided for workshop and mineral separation plant waste water.	Domestic waste water is treated in sewage treatment plant (STP) of 250 KLD capacity and treated sewage is used for green belt development within the cement plant premises. Domestic solid waste from colony and STP are segregated into bio-degradable and non-bio degradable. Bio- degradable waste is composted & non-bio degradable waste is put into identified site of land filled area. There is no effluent generation in the process. The third party monitored reports are enclosed ANNEXURE-XII
xvi)	The project proponent shall ensure that no natural water course shall be obstructed due to any mining operations.	No natural water course is in the mining operations.
xvii)	Catch drains & siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow or silt & sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desalted, particularly after monsoon, and maintained properly.	There are no overburden and mineral dumps in the mining lease area. However, bunds are made above the mine pit.

xviii)	Garland drain of appropriate size, gradient & length shall be constructed for both mine pit & inter burden dumps and sump capacity shall be designed keeping 50% safety margin over & above peak sudden rainfall (based on 50 years data) & maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper setting of silt material. Sedimentation pits shall be constructed at the comers of the garland drains & desilted at regular intervals.	There are no overburden and mineral dumps in the mining lease area, hence it is not applicable.
xix)	Regular monitoring of ground water level & quality shall be carried out by establishing a network of existing wells & constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring shall be four times a year-pre- monsoon (April/May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to MOE&F and its Regional Office at Bangalore, Central Ground Water Authority & State Ground Water Board.	Regular monitoring of ground water level & quality are carried out in consultation with Regional Director, Central Ground Water Board through external approved laboratory manually or monthly basis and the monitored data are sent to MOE&F, RO Chennai. Piezometers are not used presently and for that the procurement process is under progress Analysis Reports Enclosed – ANNEXURE XII
xx)	Dimension of the retaining wall at the toe of inter burden benches within the mine to check run-off and siltation shall be based on the rain fall data.	There are no retaining walls, No overburden and No mineral dumps in the mining lease area.
xxi)	Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.	Rain water harvesting arrangement for the root top collection and storm water with proper drainage and settling pits are made in the cement plant and the rain water is collected in the mine pit and this is helping to recharge the ground water.
xxii)	All the bag filter dust, raw meal dust, clinker dust & cement dust from pollution control devices shall be recycled & reused in the process and used for cement manufacturing. Sludge from domestic Sources shall be used as manure for green belt development. Waster oil shall be sold to authorized recyclers / reprocesses.	All the bag filter dust, raw material dust, clinker dust & cement dust from pollution control devices are recycled & reused in the process and used for cement manufacturing. Sludge from domestic sources is used as manure for green belt development. Waste oil is stored and disposed to authorized recyclers / reprocesses.
xxiii)	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	We are in the process of contacting the chemical Industries for the supply of Hazardous waste materials
xxiv)	Efforts shall be made to use low grade lime, more fly ash & solid waste in the cement manufacturing.	Efforts are being made to use low grade Lime Stone by mixing with high grade Lime Stone to get required composition of Lime Stone in the Raw meal Preparation. Required quantity of Fly Ash is being added in the manufacturing of cement without compromising in the quality of cement.

xxv)	All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in making Pozollona Portland Cement (PPC).	making Pozollona Portland Cement (PPC) as per	
xxvi)	Action plan for the mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area & mine closure shall be submitted to the Ministry's Regional Office at Bangalore.	There are no overburden and mineral dumps in the mining lease area. Mine workings are under progress. We will submit the mine closure plan to the Ministry's Regional Office.	
xxvii)	Top soil, if any, shall be stacked with proper slope at embarked site(s) only with adequate measures and shall be used for reclamation & rehabilitation of mined out areas.	There is no much top soil and the lime stone is ou cropped. However whatever top soil was removed was used for greenbelt development activities	
xxviii)	The inter burden & other waste generated shall be stacked at embarked dump site(s) only & shall not be kept active for long period. The total height of the dumps shall not exceed 30 m in 3 terraces of 10 m each and the overall slope of the dump shall be maintained to 28 degree. The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion & surface run off. Monitoring & Management of rehabilitated areas shall be submitted to MOE & F and its Regional Office, Bangalore on six monthly basis.	t There are no overburden and mineral dumps in the mining lease area.	
xxix)	Suitable rainwater harvesting & conservation measures to augment ground water resources in the area on long term basis shall be planned & implemented in consultation with Regional Director, Central Ground Water Board in cement plant & mining area to augment ground water resources and use for dust suppression & horticulture.	Rain water harvesting arrangement for the root top collection and storm water with proper drainage and settling pits are made in the cement plant and the rain water is collected in the mine pit and this is helping to recharge the ground water.	
xxx)	The project proponent shall take appropriate mitigative measures to prevent pollution on nearby River and other surface water body, if any.	River Krishna is located about 2 km away from the cement plant and from mine about 4 km and there is no water bodies nearby.	
xxxi)	Wet drilling blasting method & provision for the control air emission during blasting using dust collectors etc. shall be used.	Wet drilling method is followed. Delay detonators are used.	
xxxii)	Blasting operation shall be done only during the day time and one bench at a time shall be blasted. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented. NOC from the Chief Controller of Explosives shall be obtained.	Blasting operation is done only during the day time and one bench at a time is blasted Controlled blasting is practiced. NOC from the Chief Controller of Explosives is obtained	
xxxiii)	Bench height, width & slope for individual bench shall be properly assessed and implemented. Adequate measures shall be adopted to stabilize the slope before abandonment. The fencing ground the reservoir shall be provided to prevent accident.	Bench height, width & slope for individual bench is properly maintained as per mines safety Act.	

xxxiv)	As proposed, green belt shall be developed in at least 54 acres out of total 120 acres in cement and all the mined out area expect used for reservoir. In mining, plantation shall be carried out by planting the native species around mining lease area, OB dumps, around water body, roads etc. in consultation with the local DFO / Agriculture Department. At least 1,500 trees per year shall be planted with a tree density of 2,000 trees per Ha. An action plan shall be submitted in this regard.	Area of the cement plant is 48.12 ha. Out of this 36.12 % i.e., 17.38 ha have already brought under Greenbelt. In addition to this we have already taken up extensive plantation activity. Green bel development is taken up In the Mines area School, colony and available vacant places. The survival of saplings is good. In all three mines also taken up plantation in consultation with local DFO. The plantation work is carried out and survival is good. Green Belt Details enclosed. ANNEXURE –VI
xxxv)	The project proponent shall modify the mine plan of the project at the time of seeking approval for the next mining scheme from the IBM so as to reduce the area for external OB dump by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall slope of the dump does not exceed 28 degree.	There is no OB dump.
xxxvi)	The void left unfilled in the mining area shall be converted into water body. The higher benches of excavated void / mining pit shall be terraced & plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	The mining works are under progress.
xxxvii)	The project Proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna. Action plan for conservation of flora & fauna shall be prepared & implemented in consultation with the State Forest & Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months from the date of issue of this letter.	Obtained NOC from Forest Department. ANNEXURE – V
xxxviii)	A final Mine Closure Plan along with details of Corpus fund shall be submitted to the MoEF 5 years in advance of final mine closure for approval.	The mining works are under progress and will submit a final mine closure plan 5 years in advance for approval.
xxxix)	Mechanized open casting shall be adopted & no change in mining technology & scope of working shall be made without prior approval of the MOE & F.	Mechanized open cast mining method is adopted & there is no change in mining technology & scope of working.
xI)	Consent to operate shall be obtained from TSPCB before starting enhanced production from mine.	 Obtained Consent to operate from TSPCB. 1. Mattapalli Lime Stone Mines CFO Order No TSPCB/CFO/NLG/HO/2017-3264

*:		 Dt: 03.03.2017 validity 31.03.2022. 2. Gundlapally Lime stone Mines CFO order Not TSPCB/CFO/NLG/HO/2017-3265 Dt: 03.03.2017 validity 31.03.2022. 3. Sulthanpur Thanda Lime Stone Mines CFO Order No: TSPCB/CFO/NLG/HO/2017-326 Dt: 03.03.2017 validity 31.03.2022 	
xli)	Permission & 'Recommendations' of the State Forest Department regarding impact of cement plant & mining activities on the surrounding Reserve Forests Viz. Sulthanpur RF, Tangeda RF, Regulagadda & Gurrambodu RF located with 10 KM radius of the project site shall be obtained & implemented. Further, Conservation plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared & implemented.	Obtained NOC from Forest Department. ANNEXURE – V	
xlii)	Rehabilitation & Resettlement Plan for the project affected population including tribals as per the policy of the State Govt. in consultation with the State Govt. of A.P shall be implemented. Compensation paid in case shall not be less than the norms prescribed under the National Resettlement & Rehabilitation Policy, 2007.	No population is effected in mining area.	
xIiii)	All the safety norms stipulated by the DGMS shall be implemented.	All the safety norms stipulated by the DGMS at being implemented.	
xIiv)	Acoustic enclosures shall be provided to control noise wherever necessary. Mine machine shall be provided with silencers. Noise shall also be controlled from cooler fans, compressor house, cement mill & raw mill, cement plant & drilling machines, excavator, blasting at mine site using appropriate noise control measures.	noise Acoustic enclosures provided to control no d with DG sets. Noise in cooler fans, compressor l r fans, cement mill, raw mill & drilling mac lant & excavator, persons involved for blasting at	
xIv)	A separate budget shall be kept for the occupational health surveillance within and outside the campus in the nearby villages.	A separate budget is kept for the occupation health surveillance within and outside the campu- in the nearby villages. Conducting medical camp in the surrounding villages by arranging outsid doctors and are providing medicines to the patients. Providing dispensary facility and in cass of emergency providing ambulance facility to the nearby villagers. ANNEXURE-VII	
xIvi)	Efforts shall be made to control flurosis in the area.	Flurosis free water is supplied to the near-b villages to control flurosis in the area.RO plant installed in the colony premises for drinking wate purpose. ANNEXURE-VII	
xIvii)	All the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for the Cement Plants shall be implemented.	 All the recommendations made in the Charter of Corporate Responsibility for Environmenta Protection (CREP) for the Cement Plants are implemented. 1. Replaced the damaged filter bags with new bags at all Air Pollution control Bags Filters 2. Reduced the emission of Particulate Matter below 30 mg/ Nm³. 	

		 3. Fugitive emissions' are controlled at ray materials/ products storage and transfe points by installing Air Pollution Contro Devices 4. Tripping of the Kiln ESP is minimized by water spraying in the cooler. 	
xlviii)	The company shall comply with the commitments made during Public Hearing on 26th May, 2009.	The commitments made during Public Hearing ar implemented.	
xIix)	This environmental clearance is subject to measures to be taken by the industrial association as identified by the TSPCB vide its letter No.45/PCB/CFE/BO/EC/2007 Dt.15th June, 2007.	Taken the required measures and the environmer clearance is obtained.	
В	GENERAL CONDITIONS	COMPLIANCE	
i)	The project authority shall adhere to the stipulations made by TSPCB & State Government.	The stipulations made by TSPCB are adhere regularly.	
ii)	No further expansion or modification of the plant shall be carried out prior approval of this Ministry.	No further expansion or modification of the plan will be carried out prior approval of the ministry.	
iii)	The gaseous & particulate matter emissions from various units shall conform to the standards prescribed by TSPCB. At no time, the particulate emissions from the cement plant shall exceed TSPCB limit. Interlocking facility shall be provided in the pollution control equipment so that in the Event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	PCB. monitoring equipments as well as online state plant monitoring equipments and as per the data 1 be parameters are well within the limits. Interlocking the facility is provided in the pollution control	
iv)			
V)	The company must harvest the rainwater from the rooftops & storm water drains to recharge the ground water and use the same for the various activities of the project to conserve fresh water.	Rain water harvesting arrangement for the root top collection and storm water with prope drainage and settling pits are made in the cemer plant and the rain water is collected in the mine pi and this is helping to recharge the ground water.	
vi)	The company shall undertake eco-development measures including community welfare measures in the project area.	Lot of community welfare measures in the project area are being implemented/provided and it is continuing as below: Organizing medical camps in the surrounding villages, aids to village schools, dispensary and ambulance facilities for villagers in emergence etc. ANNEXURE – VII	
vii)	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) 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	 area is kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise 	

	prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) & 70 dBA (Night time).	monitored at six locations during day and nigh time and as per the reports the levels are within the limit as per the reports. The third party noise levels are monitored regularly and the reports are enclosed ANNEXURE-XII	
viii)	Proper housekeeping shall be taken up. Regular annual examination of all the employees shall be carried out from the occupational health point of view & records maintained.	Maintaining good housekeeping. OHS is carried out for all employees and records' are maintained.	
ix)	A separate environmental cell to carry out various management & monitoring functions shall be set up under the control of Senior Executive.	A separate environmental cell is set up under the control of Senior Executive. The environmenta parameters are monitored through an approved external laboratory. ANNEXUR- VIII	
x)	Occupational health surveillance program shall be done on a regular basis & records maintained. The program must include lung function and sputum analysis tests once in 6 months.	Occupational health surveillance (OHS) program is done on a regular basis & records are maintained. Lung function and sputum analysis tests are conducted once in 6 months ANNEXURE – VII	
xi)	As proposed, Rs.19.40 Crores & Rs.4.70 Crores shall be embarked towards the total capital cost & recurring cost/annum for environmental pollution control measures & shall be suitably used to implement the conditions stipulated by the MOE & F as well as State Government. The funds so provided shall not be diverted for any other purpose.	As proposed has been embarked towards the tota ag capital cost & recurring cost/annum for & environmental pollution control measures. The ed funds earmarked have not been diverted for any	
xii)	The company shall provide housing for construction labor within the site with the necessary infrastructure & 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 the project.	The company has provided housing for construction labor within the site with the necessary infrastructure & facilities such as fuel for cooking, toilets, safe drinking water, medical health care etc. The housing was in the form of temporary structures and removed after the completion of the project construction	
xiii)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zillah Perished/ Municipal Corporation, Urban Local Body & the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearances letter shall also be put on the web site of the company by the proponent.	A copy of the EC was sent to Panchayat.	
xiv) The project proponent shall upload the status of compliance 1 of the stipulated EC conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent the Regional Office of MOEF, the respective Zonal Office of CPCB & the APPCB. The criteria pollutant levels namely; RSPM, PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the		Uploaded the status of compliance of the stipulated EC conditions, including results of monitored data on their website & updating the same periodically. The critical sectoral parameters monitored & displayed at the main gate of the company ANNEXURE – IX	

xv)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both the copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of TSPCB. The Regional Office of this Ministry at Bangalore / CPCB / SPCB shall monitor the stipulated conditions.	Submitting six monthly compliance reports on the status of the compliance of the stipulated environmental conditions including results o monitored data (both the copies as well as by e mail) to the Regional Office of MOEF, the Zona Office of TSPCB. https://nclind.com/environmental- statement.htmlstatement.htmlANNEXURE – X
xvi)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State PCB as prescribed under the Environmental (Protection) Act, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions & shall also be sent to the Regional Office of the MOEF at Bangalore by e-mail.	Submitting Form V to TSPCB and also uploaded to company's web site. <u>https://nclind.com/environmental-</u> <u>statement.html</u> ANNEXURE – XI
xvii)	The project proponent shall inform the public that project has been accorded environmental clearance by the Ministry & copies of the clearance letter are available with the APPCB and may also be seen at web site of the MOE & F at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers 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 Regional Office.	News paper advertisement in two local news papers namely The Hindu & Andhra jyothi and submitted the copy of same to MoEF, RO.
xviii)	Project authorities shall inform the Regional Office at Bangalore as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The date of financial closure and final approval o the project by the concerned authorities and the date of commencing the land development work was informed to RO as well as the Ministry.
		B. CLOWER S

<u>ANNEXURE –I</u>

PROPOSED WHR SITE PHOTOS

AQC 2 BOILER LOCATION



PRESENT PROJECT WORK



AQC 3 BOILER LOCATION



PRESENT PROJECT WORK



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PRE HEATER BOILER 3 LOCATION

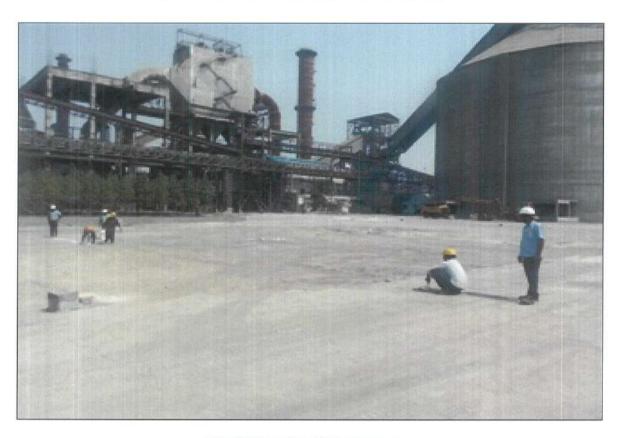


PRESENT PROJECT WORK



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COOLING TOWERS & WTP LOCATION



PRESENT PROJECT WORK



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TURBINE & GENERATOR LOCATION



PRESENT PROJECT WORK



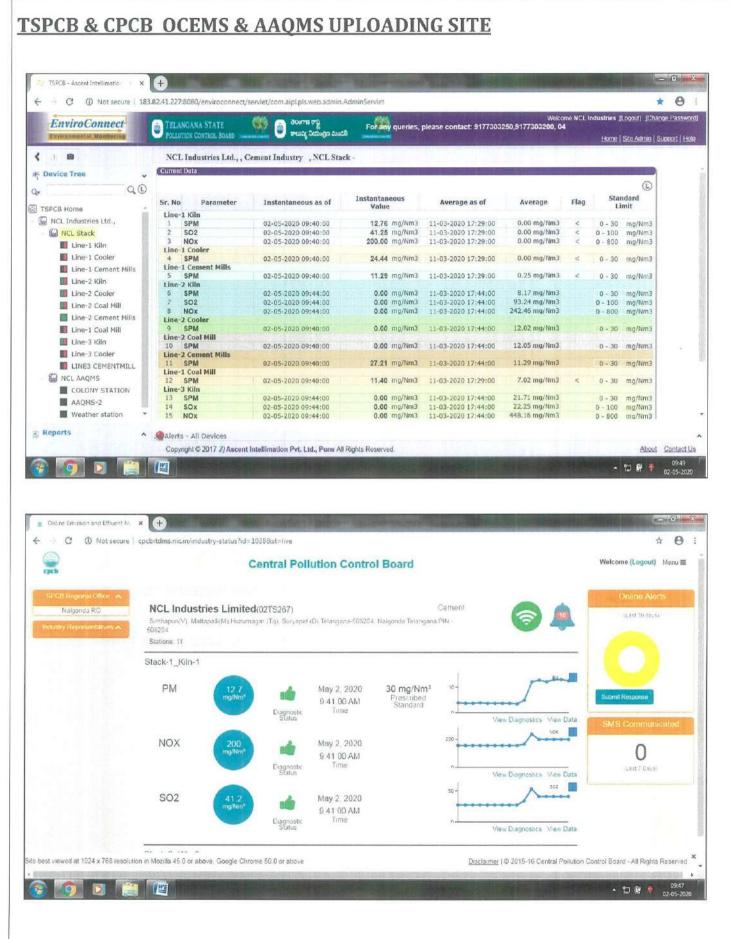
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ANNEXURE II

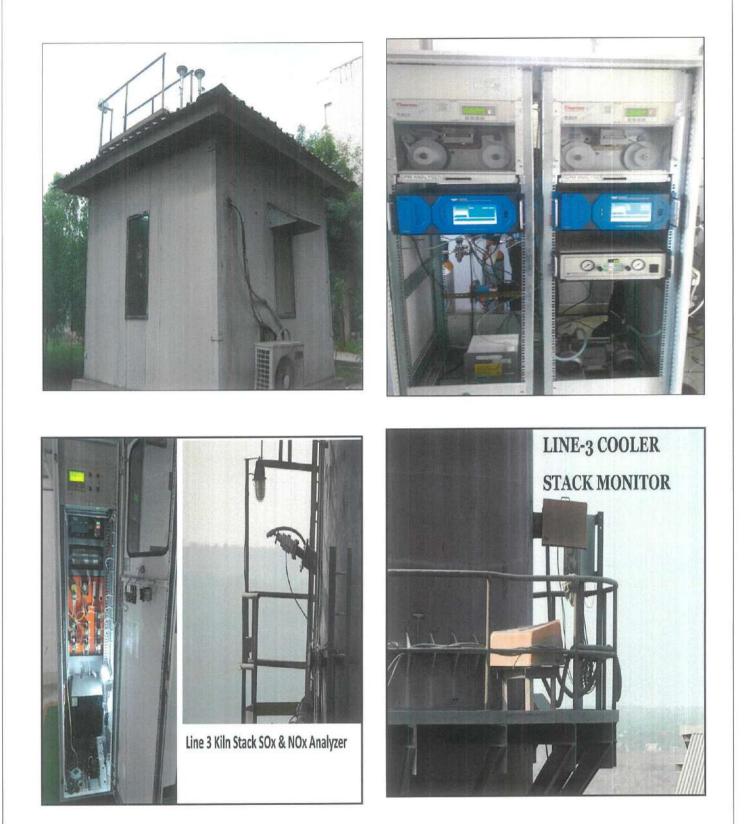
NCL INDUSTRIES LIMITED: SIMHAPURI

On-line Continuous Stack Monitoring System (OCSEMS) and Continuous Ambient Air Quality Monitoring Systems (CAAQMS) Stations

S.No.	Stack attached	Type of Monitoring System (Emission / Effluent / CAAQMS)	Stack ID
1	Line-1 Kiln	Emission	NCL Industries Limited-Stack_1_Kiln_1
2	Line-1 Cooler	Emission	NCL Industries Limited-Stack_4_Cooler_1
3	Line-1 Cement Mills	Emission	NCL Industries Limited-Stack_9_Cement Mill_1
4	Line-1 Coal Mill	Emission	NCL Industries Limited-Stack_7_CoalMill_1
5	Line-2 Kiln	Emission	NCL Industries Limited-Stack_2_Kiln_2
6	Line-2 Cooler	Emission	NCL Industries Limited-Stack_5_Cooler_2
7	Line-2 Coal Mill	Emission	NCL Industries Limited-Stack_8_CoalMill_2
8	Line-2 Cement Mill	Emission	NCL Industries Limited-Stack_10_CementMill_2
9	Line-3 Kiln	Emission	NCL Industries Limited-Stack_3_Kiln_3
10	Line-3 Cooler	Emission	NCL Industries Limited-Stack_6_Cooler_3
11	Line-3 Cement Mill	Emission	NCL Industries Limited-Stack_11_Cement Mill_3
12	Colony	CAAQMS	NCL Industries Limited-CAAQMS_01_Colony
13	Cement Plant	CAAQMS	NCL Industries Limited-CAAQMS_02_CementPlant



CAAQMS IN COLONY



ANNEXURE-III

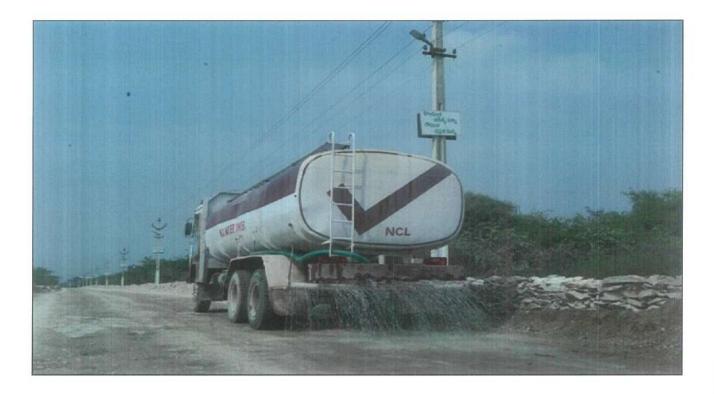
ALL RAW MATERIALS ARE TRANSPORTED IN CLOSED CONTAINERS/ FULLY ENCLOSED

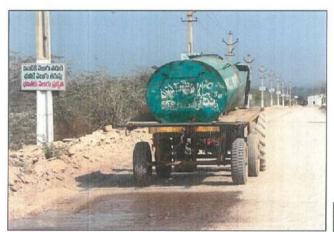




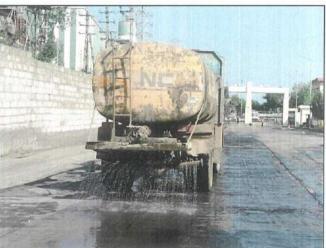
Page 68 of 92

ROAD WETTING WITH WATER TANKERS AT MINES





ROAD WETTING IN MINES ROADS & PLANT ROADS



REGULR CLEARING OF ROAD WITH ROADS SWEEPING MACHINE



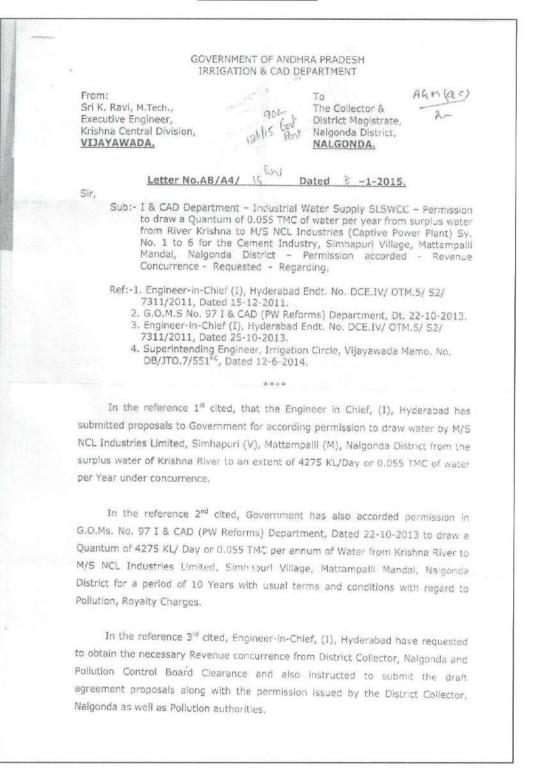
ASPHALTING / CONCRETING OF ROADS & CRITICAL AREA



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ANNEXURE - IV

Water Permission



Therefore, I request the District Collector, Nalgonda to accord necessary Revenue Concurrence for drawal of 4275 KL/Day or 0.005 TMC of water from Krishna River by M/S NCL Industries Limited, Simhapuri Village, Mattampalli Mandal, Nalgonda District for a period of 10 Years at the earliest for onward submission of the draft agreement proposals to higher authorities.

112/1

Encl:- Copy of reference 1st to 3rd.

Yours faithfully, Sd/- K. Ravi, Executive Engineer, K.C. Division :: Vijayawada.

Copy submitted to Superintending Engineer, Irrigation Circle, Vijayawada for favour of Information and taking further necessary action.

Copy to Deputy Executive Engineer, Head Quarters Sub-Division, Vijayawada for Information and necessary action. He is requested to persue the matter from the District Collector, Nalgonda.

Copy to M/S NCL Industries Limited, Simhapuri Village, Mattampalli Mandal, Nalgonda District for information. The Industries is requested to obtain the necessary permission of Pollution Control Board Clearance Certificate and submit the same to this office for taking further necessary action.

> Sd/- K. Ravi, Executive Engineer, K.C. Division :: Vijayawada.

Dvnl. Accounts Officer(W) K.C. Division :: Vijayawada

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ANNEXURE -- V

PERMISSION LETTER FROM FOREST DEPARTMENT

1

	·				1000
	COVEDNMENT	OF) TELANGANA	n 0	2	
	FOREST D	RARTMENT			
From:		To:			
Sri. G. Mukund Reddy,		The Managing Direc			
District Forest Officer,		M/s NCL Industries	Ltd., u	. And the second se	5
Suryapet.		Hyderabad.			
	RC.No.75/2017	S. Dt:27.11.2018			
Sir, Sub : TSFD - TS	PCB - RO - NLG - E	wironmental Public Hea	aring (EPH) - M/s	NCL	
Industries stone Mine	Ltd. has proposed f e capacity from 0.05	or enhancement of Sul MTPA to 1.0 MTPA loca , Suryapet District - Stat	thanpur Thanda L ted at Sy.No.540	ime	9
Ref: 1. NCL Ind 2. NCL Ind	ustries Ltd., Ref.No.N ustries Ltd., Ref.No.N	CL/Forests Dept, Dt.01.0 CL/Forests Dept, Dt.26.	09.2018. 11.2018.		1.
With reference t	o the subject and re	ference cited above, th	ne M/s NCL Indust	ries	
Ltd., had requested for Thanda Lime Stone Mi	or Status report for ne production capac	the proposal of enhance ity from 0.05 MTPA to li (M), Suryapet District	ement of Sulthar	npur 1 in	
The undersigned	had inspected the m	ining area together with	Forest Range Office	cer,	
Huzurnagar 15" Septem	ber, 2018. The plan s	ubmitted by M/s NCL Ind	dustries Ltd., show	ving	
the Mining Lease area	(With GPS Readings)	for Limestone Deposit	in Sy.No.540 over	an	
extent of Ac. 105.32 g	ts (42.83 Ha) in Peda	veedu Village, Mattamp	alli Maridal, Surya	pet	
District (Erstwhile Nalg	onda District), Duly	approved by Tahasildar,	Mattampally Mar	idal	
and Asst. Director of Mi					
It is confirmed that:	5		: .	÷	
1 The said location	n does not fall in the	Forest Area, but the ar	an is adjacont to	the	
		it should comply recen			
	nute iccuse with Fore	et Danastmant hut the			
2. There are no us	pute issues with role	st Department but the y	vasta matenat ma	iniy	
the panel cut p	ortions is being dum	ped along road side ev	en in Reserve For	rest	
		in future waste disposal	to be in designa	ted	
areas as per min					
 The area is comp Hence the greer 	oletely preexisting m 1 cover other conditi	ining area of NCL Indust ons that are in mining	ries Ltd., from 19 plan to be prope	96. erly	2
implemented.		24110-11		5	
4. No perennial nall	ah or streams are see	n within the area.			
5. There are no en	dangered species of	flora existing in the are	a and it has neit	her	
ecological nor ec	conomic importance a	nd normal species of br	ushes and bushes	are	
only seen.					
6. No sanctuary and	national parks does r	ot exist within the abov	e area.	10	
		issues for enhancement (da	
Lime Stone Mine produc (P), of Pedaveedu (V), M	tion capacity from C	.05 MTPA to 1.0 MTPA	located in Sy.No.!	540	U g
		-7	A . /		
		District	Forest Officer,		
		to to be to be	Suryapet.		
		0.0	- Jupon		

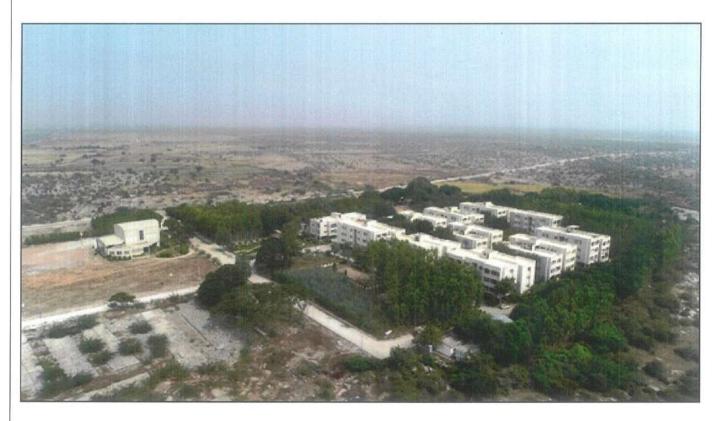
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ANNEXURE -VI

GREENBELT DETAILS

S.No	Description	Area	Area	% Green Belt
		Hectares	Acres	
1	Plant Built up Area	12	29.65	
2	Colony	8	19.77	
3	Green Belt	17.38	42.95	36.12%
4	Roads	10.74	26.53	
	Total Plant & Colony Area	48.12	118.90	

GREENBELT DEVELOPMENT IN COLONY

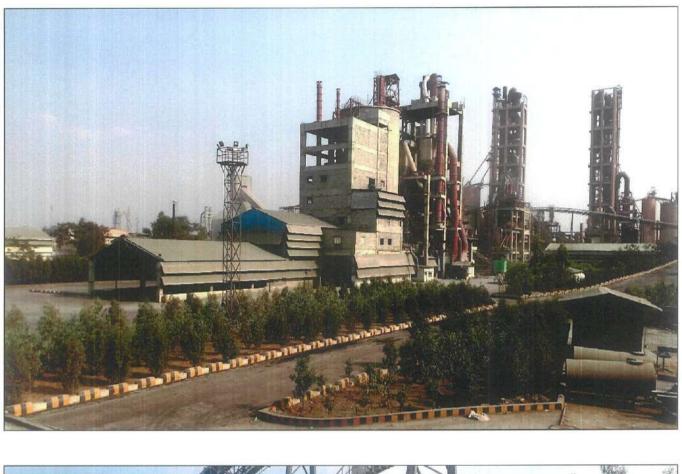


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GREEN BELT IN MINES



Green belt in Plant





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GREEN BELT DEVELOPMENT



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ANNEXURE -- VII

PRIMARY HEALTH CENTER



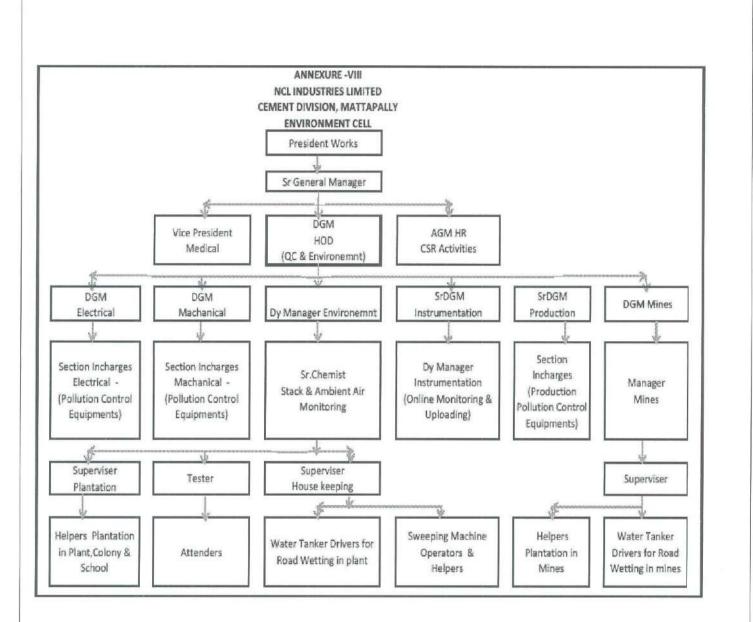


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WATER TREATMENT PLANT



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ANNEXURE -IX

THE CRITERIA POLLUTANT PARAMETERS LEVELS ARE DISPLAYED AT MAIN GATE



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ANNEXURE -X

Submission letter of EC – Compliance Reports for the Period of April to September 2019

	CEMENT DIVISION-	NCL SROUP
89 9	AN ISO 9001 : 2015 COMPANY	NOL BITTON
	CIN: L33130TG1979PLC002521	Date: 30.11.2019
	NCL/QC/ 2019-20/	Date: 50.11.2019
	The Director (S), Regional Office (south Eastern Zone),	
	Government of India,	
	Ministry of Environment & Forest and Climate Change,	
	1st 2nd Floor, HEPC Building, No.34, Cathedral Garden Road,	
	Nungambakkam, Chennai - 600034.	
	Dear Sir,	
	Sub: Submission of Six month Compliance Report of the En M/s. NCL Industries Ltd, Simhapuri, Nalgonda (Dt), Te	
	Ref: 1. Expansion of Cement Plant Environment Clearance:	
	F. No: J- 11011/576/2008-IA II(I), Dated: 28.10.201	
	 Cement Plant & Lime stone Environment Clearance: F.No: J-11011/576/2008-IA II (I), Dated 15.12.2009 	
	We submit herewith the conditions wise Compliance Sta	
	Environment Clearances accorded by the MoEF along with Fugitive Emission, Stack Monitoring and Noise levels, Wat	
	and Ground Water Level Monitored by accredited third]	party laboratory M/s. Lawn Enviro
	Associates for the period April to September 2019 for the	kind information.
	Thanking you,	
	Yours Faithfully,	
	For NCL INDUSTRIES LTD.	
	R. Marrie	
and it		
yst-	PRESIDENT (WORKS)	
	Encl: 1. Compliance Status Report of F. No: J- 11011/576/2	2008-IA 11(I), Dated: 28.10.2016.
	along with Monthly Monitoring Reports. 2. Compliance Status Report of F. No: J- 11011/576/2	2008-14 11(1) Dated: 15 12 2009
	along with Monthly Monitoring Reports.	2000 m 11(1), paren 13.12.2007.
	CC to : 1. Regional Directorate – Bengalore, CPCB Zonal Offic	ce, A-Block, Nisarga Bhavan,
	1 st and 2 nd Floors, 7 th D Cross, Thimmaiah Road, S	
	2. The Environment Engineer, TSPCB Board, Regiona	
	Laxmi Complex, Near Clock Tower, NALGONDA – S	308001.
	Factory : Simhapuri, Mattapalli Village, Mattampalli Mandal, Tel : 08683-227630, Fax: 08683-227629 E-mail : ncl	works@nclind.com
1 0	6th & 7th Floor, NCL Pearl, Near Rail Nilayam S.D. Road, Sec 1-40-30120000, 29807868 / 69 Fax : 91-40-29807871, E-mail:	

ANNEXURE - XI

SUBMISSION LETTER OF ENVIRONMENT STATEMENT AUDIT REPORT - FORM V FOR 2018-19

	2 T T 2 -		
1	NCL INDUSTRIES LIMITED		NCL GROUP
8	// REGISTERED	POST A/D//	AN ISO 9001 : 2015 COMPANY CIN : 1331301G1979PLC002521
	NCL/ QC/2019-20/ 546	DT: 18	.09.2019
	То		
	The Member Secretary, TSPC Board, Paryavaran Bhavan, A-3, Industrial Estate, Sanatanagar, HYDERABAD - 500 018.	×.*	
	Sub: Submission of Environmental Statemer	it Audit Report Fo	rm - V for the Year 2018 -19.
	Ref: Amendment of CFO&HWA Order No: Dated: 19/11/2018.	- TSPCB/RCP/NI	LG/HO/CFO/2018 - 2563;
	Dear Sir.		
(š.)	With reference to the above cited subject, w of Environmental Statement Audit Form - 2019.	e are here with su V for the financia	ibmitting three copies al year ending March
	Kindly acknowledge the receipt of the same		
	This is for your kind information.		
	Thanking you.		
	Yours faithfully,		
k	For NCL ENDUSTRIES LIMITED		
ok.	Copy to: The Environmental Engineer, TSP H.No.8-15,1 st Floor, Sri Laxui Co Sri Vinayak Nagar, <u>NALGONDA</u>	mplex, Near RTA	office,
	Factory : Simhapuri, Mattapalli Village, M Tel : 08683 - 227630, Fax: 0868	attampalli Mandal 3-227629 E-mail :	t, Suryapet Dist., 508204, T.S. <u>nelworks@nelind.com</u>
	Rsgd. & Corporate Office: NCL Pearl, 7th Floor, Near Re T : 91-40-30120000, 2980 7868/69, Fax: 91-40-295	ill Nilavam, S.D. Road, S 10 7871, E-mail: nol@inc	Secunderabad-500 026. Telangana, India, lind.com Website : www.nclind.com
	Ancasisna nacantsna di Pliso	DAME C	Uradiot Denis of all and analysis

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ANNEXURE - XII

NCL INDUSTRIES LTD

CEMENT DIVISION

AMBIENT AIR QUALITY MONITORING DATA - MINES BUFFER ZONE

OCTOBER TO MARCH 2020

Nox Flow PM PM So2 Nox Flow PM PM PM PM So2 Nox $\mu g/m$ Avg $\mu g/m$	1. Sultanpur Thanda	Sultan	5	Ind	r Thai	nda			2.0	Mattapalli	palli				3 Do	aven	inhad		-	A Dame	- have		and share a	The	-
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m3/min m3 3 m3/min m3 3 m3/min m		hg/ hg/	hg/		/SH	-	Mdd	Avg	ug/	ug/	_	m/grd	PPM	AVP	/811	/211	hg/		DDD	Ave	101	C.7	hg/	hg/	00
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ANNEXURE - XII NCL INDUSTRIES LTD CEMENT DIVISION AMBIENT AIR QUALITY MONITORING DATA - MINES CORE ZONE OCTOBER TO MARCH 2020

Date		E.	1. Mines Lighting Tower	ighting To	ower				2. Rest Shelter Mines	elter Mi	nes				3.Factory Gate	v Gate				d Magaz	4. Magazine security Building	ity Ruild	50
	Flour									ſ		T								0		mino da	0
Time duration of	Rate	PM 10	PM 2.5	502	Nox	0	Rate	PM 10	PM 2.5	502		8	Flow	PM 10	2 C Md	Co.2	Nov	3	Flow	-		1	
sample 24hr	Avg m3/min	µg/m3	hg/m3	µg/m3	µg/m3	PPM	Avg m3/min	Hg/m3	µg/m3	pg/m3	Nox µg/m3	PPM	Avg	Hg/m3	200	-	Hg/m3	PPM	Avg	PR/m3 P	H 2.2 Mr	502 µg/m3 µ	Nox µg/m3
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Sultanpur Thanda Limestone Mines - Core Zone

Date			1. North Side of Mines	Side of M	lines				2. South Side of Mines	ide of M	ines			42)	3.East sid	3.East side of Mines	5			10	A Wast Side of mines	ofmine		
	_						Flaw						Flow						close	Ē				
Time duration of		PM 10	PM 2.5	502	Nox	S	Rate	PM 10	PM 2.5	502	Confine wold	ů	Rate	PM 10	PM 2.5	502	Nox	Co	Rate	PM 10	5 C Md	5n7	Nov	0
sample zanr	Avg m3/min	µg/m3	Hg/m3	hg/m3	pg/m3	Mdd	Avg m3/min	Hg/m3	pg/m3	pg/m3	כנוו /אל אחאו	PPM	Avg	µg/m3	µg/m3	Em/By	pg/m3	PPM	Avg	Hg/m3	Em/34	pg/m3	Em/gu	PPM
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26.02.2020	ELL	09	22	1	u.	5	41.1	74	1.1								-		-000	100		144	20	*

Nox Co Flow Image Rate PM 10 Image Arg PPM 10 Image M3/min PPM 10 Is - 1.13 63 Is - 1.13 60 Is - 1.13 60 Is - 1.13 60 Is - 1.13 60 Is - 1.13 66 Is - 1.13 66 Is - 1.13 56 Is - 1.13 56 Is - 1.13 56 Is - 1.13 56 Is - 1.14 56	Date			1. North	1. North Side of Mines	Mines				2. South Side of Mines	ide of Mi	nes			3.1	3.East side of Mines	of Mines				4.V	Vest Side	4.West Side of mines		
		Flow		_				Flow						Flow	-	-	$\left \right $	-	T			-			
Marking Partial <	ime duration o	_			-	_	9	Rate	PM 10	PM 2.5		Nox un/m3	ß	177		-	So2	Nox	e		PM 10	PM 2.5	502	Nox	S
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Page 86 of 92

		ANNEXURE - XII NCL INDUSTRIES LTD CEMENT DIVISION GROUND WATER LEVELS MONITORING REPORT OCTOBER TO MARCH 2020	I .TD N TORING REPORT 1 2020	
Date of Survey	Mattapalli Village	Sultanpur Thanda	Pedaveedu Village	Ramachandrapuram Village
25.10.2019	There atre no open wells. Krishna priver water is being used	There atre no open wells. Krishna priver water is being used	Water level is 4.60 mtrs from the ground surface in the open well	Water level is 5.00 mtrs from the ground surface in the open well
22.11.2019	There atre no open wells. Krishna priver water is being used	There atre no open wells. Krishna priver water is being used	Water level is 4.90 mtrs from the ground surface in the open well	Water level is 5.20 mtrs from the ground surface in the open well
16.12.2019	There atre no open wells. Krishna priver water is being used	There atre no open wells. Krishna priver water is being used	Water level is 5.40 mtrs from the ground surface in the open well	Water level is 6.10 mtrs from the ground surface in the open well
29.01.2020	There atre no open wells. Krishna priver water is being used	There atre no open wells. Krishna priver water is being used	Water level is 4.20 mtrs from the ground surface in the open well	Water level is 5.70 mtrs from the ground surface in the open well
23.02.2020	There atre no open wells. Krishna priver water is being used	There atre no open wells. Krishna priver water is being used	Water level is 5.50 mtrs from the ground surface in the open well	Water level is 6.40 mtrs from the ground surface in the open well



				MATTAMPALLI MINE	Levels in dB(A) Leq Night Time	60	57	58	61	63
				MATTAM	Levels in dB(A) Leq Day Time	65	62	63	99	68
			020	SULTHANPUR MINES	Levels in dB(A) Leq Night Time	59	62	60	58	59
ANNEXURE - XII NCL INDUSTRIES LTD	CEMENT DIVISION	NOISE LEVEL DATA	OCTOBER TO MARCH 2020	SULTHANI	Levels in dB(A) Leq Day Time	64	68	65	63	64
A	CE	NO	OCTOB	GUNDLAPALLI MINE	Levels in dB(A) Leq Night Time	55	58	56	53	54
				GUNDLAP .	Levels in dB(A) Leq Day Time	60	63	61	58	60
				Location	Date	26.10.2019	21.11.2019	15.12.2019	29.01.2020	23.02.2020



GOVERNMENT OF TELANGANA DEPARTMENT OF WATER AND WASTE WATER EXAMINATION Directorate of I.P.M,P.H.Labs,Food (H) Administration, Narayanaguda.

REPORT OF BACTERIOLOGICAL ANALYSIS OF WATER

1. Sample NCL Industries Ltd, Simhapuri, Mattapally

2. Collected

by: Dr.J.Srihari Rao, Chief Medical Officer

3. Collected on 17.1.2020

4.Received on : 17.1.2020

Lab. Ref. No.	Source	Exact location	Residual Chlorine mg per liter	Total Coliform Bacteria (MPN Index) per 100ml	Faecal Colifor m Bacteria per 100ml	Esch. Coli per 100m1
5100	filter water	Filter water collected from plant at given address		Nil		
5101	filter water	Filter water collected from plant at given address	Total A	erobic Bacteria 37 ⁰ c= 10 (24 hrs at

marks: The given sample is bacteriologically satisfactory for drinking purpose

A. D. J. Chief Water Analyst

	GOVERNM	TENT OF TELANGANA		Phone: 275577
	DEPARTMENT OF W	ATER AND WASTE WAT	FR FYAMINATION	
	Directorate of I.P.M,P.H.Labs	Food (H) Administration	Naraumania II 1	1 1 00
	REPORT OF PHY	SICO CHEMICAL ANALY	Narayanaguda, Hyder	rabad – 29.
Sample	From NCL Industries Ltd	Collected by		
Adduces		Collected by	Dr.J.Srihari Rao, Chiel 17.1.2020	Medical Officer
Address	Simhapuri, Mattapally	conected off	17.1.2020	
District	Hyderabad	Received on	17.1.2020	
State	Telangana	Sample volume	2 ltr	
Source p	profile Filter water	Sample ID	5102	
			100000000	
		Source / Sample ID		S PER IS 10500
S.No	Parameter	Filter water collected from plant at given address / 5102	Requirement (Acceptable)	Permissible limit in the absence of alternative source
Physical	parameters			
) 1	colour(Hazen),max	<5	5	25
2	Turbidity (NTU),max	1	5	10
3	Odour	UnObjectionable	UnObjectionable	UnObjectionable
4	Taste	Acceptable	Acceptable	Acceptable
5	P ^H	7.3	6.5 - 8.5	
6	Electrical Conductivity at 25°C (Micro Mhos/cm)	88		No relaxation
7	TDS(mg/L),max	58	500	2000
hemica	l parameters (mg/L)		500	2000
1	Alkalinity(as CaCO3) ,phenolphthalein ,max	Nil		
2	Total alkalinity (as CaCO3) ,max	19	200	600
3	Total hardness ,max (as CaCO3)	18	300	600
4	Calcium hardness (as CaCO3),max	8		
5	Magnesium hardness (as CaCO3),max	10		
6	Calcium (as Ca),max	3.2	75	200
7	Magnesium (as Mg),max	2.5	30	100
8	Ammonical Nitrogen,max	Nil		
9	Nitrite(as N),max	Nil		
10	Nitrate(as N),max	Nil	45	100
11	Sulphate (as SO4),max	2	200	400
12	Chloride(as Cl),max	14	250	1000
13	Fluoride(as F),max	0.08	1.0	1.5
14	Iron (as Fe),max	Nil	0.3	1.0

1.1.1.1

Remarks: The given sample is physico chemically satisfactory for drinking purpose .

A.w. le Dy.Chief Water Analyst

LAWN
OF TTERENNIES"
ISO 9001, 14001 & 45001 CERTIFIED COMPANY

13. Boron

14. Calcium

16. Chlorides

17. Copper

20. Iron

18. Flourides

21. Magnesium

22. Manganese

19. Residual Chlorine

15. Chloramines

LAWN ENVIRO ASSOCIATES [Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi

& Laboratory Accredited by NABL

TEST REPORT

REF.NO: LAWN/NCL-C/2019

Date: 28-12-2019

WATER ANALYSIS

		•••••••••••••••••••••••••••••••••••••••			
		STRIES LIMITED			
Address (Cement Division) : Simhapuri, Mattapalli (V), Mattampally (M), Suryapet (Dist – 508 204.					
Date of Collection : 16-12- Date of Analysis : 17-12-					
24			As per IS:10500 – 2012 Permissible Limit		
1. Color (Hazen units)		: <1.0	15 max		
2. Odour		: Agreeable	Agreeable		
3. pH at 25°C		: 7.56	6.5 - 8.5		
4. Taste		: Agreeable	Agreeable		
5. Turbidity (NTU)		: <0.10	05 max		
6. Dissolved solids at 180°C		: 51	2000 max		
7. Coliforms		: Absent	Absent		
8. Escherichia coli		: Absent	Absent		
9. Aluminium	as Al	: <0.001	0.2 max		
10. Ammonia	as N	: Nil	0.5 max		
11. Anionic surface active agent	s as MBAS	: ND	1.0 max		
12. Barium	as Ba	: <0.001	0.7 max		

: <0.01

: 06

: ND

: 5.16

: 0.25

: <0.04

0.02

: <0.001

: 2.59

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926 Branch Office : H.No.18/2, Ground Floor, Phase-I, Vuda Nagar, Rajiv Nagar Road, Kurmannapalem, Visakhapatnam - 530046. (A.P.) Tel : +91-9030029925

: <0.001

as B

as Ca

as (Cl2)

as Cl

as Cu

as F

as Fe

as Mg

as Mn

1.0 max

200 max

4.0 max

1.5 max

1.5 max

1.0 max

0.3 max

100 max

0.3 max

1000 max



LAWN ENVIRO ASSOCIATES

[Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi & Laboratory Accredited by NABL

TEST REPORT

:2:

23. Mineral Oil		: ND	0.5 max
24. Nitrates	as NO ₃	: 0.32	45 max
25. Phenolics	as C6H5OH	: <0.001	0.002 max
26. Selenium	as Se	: <0.001	0.01
27. Silver	as Ag	: <0.001	0.1 max
28. Sulphates	as SO4	: 1.90	400 max
29. Sulphide	as H2S	: <0.02	0.05 max
30. Total alkalinity	as CaCO3	: 08	600 max
31. Total hardness	as CaCO3	: 12	600 max
32. Zinc	as Zn	: <0.001	15 max .
33. Cadmium	as Cd	: <0.001	0.003
34. Cyanide	as CN	: ND	0.05
35. Lead	as Pb	: <0.001	0.01
36. Mercury	as Hg	: <0.0005	0.001
37. Molybdenum	as Mo	: <0.001	0.07 max
38. Nickel	as Ni	: <0.001	0.02 max
39. Total Arsenic	as As	: <0.001	0.05 max
40. Total Chromium	as Cr	: <0.001	0.05 max

Note: 1. All the values except pH, Turbidity & Colour are expressed in mg/L.

2. The above water is suitable for drinking.

3. ND - Not Detected

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926 Branch Office : H.No.18/2, Ground Floor, Phase-I, Vuda Nagar, Rajiv Nagar Road, Kurmannapalem, Visakhapatnam - 530046. (A.P.) Tel :+91-9030029925 E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com