NCL INDUSTRIES LIMITED
CEMENT DIVISION
AN ISO 9001 : 2015 COMPANY
CIN : L33130TG1979PLC002521

NCL/QC/ENVT/2020-21/ 561 Date: 30.11.2020

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,
Nungambakkam, Chennai – 600034.

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 **April to September 2020** for the kind information.

Thanking you,

Yours Faithfully,

For NCL INDUSTRIES LTD.,

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.

NCL INDUSTRIES LIMITED :: SIMHAPURI

PLANT :: ENVIRONMENTAL CLEARENCE COMPLIANCE REPORT

Six months Compliance Report for the period of April to September 2020
Conditions Specified in EC Granted by MOEF
Vide Letter No: F. No: J- 11011/576/2008-IA 11(I) Dated:28th Oct 2016

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 i.e.; in all the Three Lines - Kiln, Cooler & Coal mill and Cement mills. Equipments connected and uploading data to website of CPCB & 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 25th August, 2014 and subsequent amendment dated 9th May, 2016 and 10th May, 2016 regarding cement plants with respect to particulate matter, SO2 and NOx shall be followed.	Being followed.
iii)	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 equipment's are installed in all major stacks. SPM being controlled within the limits by installing following Pollution Control Equipment's ➢ 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 and silos, pre-heater top de-dusting equipment's, kiln feed extraction equipment & packing plants etc., ➢ 11MW 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. ➢ SPM emissions will be reduced further after installation of WHR. ➢ Load on ESP will be reduced and it will run more efficiently. ➢ WHR CFE Order No:02/TSPCB/CFE/STP/RO-NLG/HO/ 2020 Dt: 29/09/2020 The stack emission levels are within Standard Limits "SPM - 30 mg/Nm3, SO_2 – 100mg/nm3 and NOx -800mg/nm3. All the 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 of 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 16th November, 2009 shall be followed.	Being followed, Third party approved by MOEF&CC is engaged to carry out emissions and Ambient Air Quality monitoring as per NAAQ standards. The data collected are submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB regularly. Reports are enclosed **Annexure –XIII**
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 by MOEF&CC is engaged to carry out emissions and Ambient Air Quality monitoring as per NAAQ standards. The data collected are submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB regularly. Reports are enclosed **Annexure –XIII**
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.	Fixed Water Sprinklers are arranged on the material transfer belt and roads to control fugitive emissions and Dedicated Water tankers are using for dust suppress. Secondary fugitive emissions from all the sources are controlled the parameters are within the latest permissible limits. The Analysis Data is submitting regularly to CPCB & TSPCB. Photos are enclosed **Annexure –V**

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 equivalent CO2 that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Office of the Ministry. This 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.	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 extensive plantation activity is taken up in the Mines area, School, colony and available vacant places. The survival of saplings is good. Green Belt Details enclosed **Annexure -VI**
ix)	For the employees working in high temperature zones falling in the plant operation areas, the total shift duration would be 4 hrs or less per day where the temperature is more than 50 degrees centigrade. Moreover, the jobs of these 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.	Being followed. PPE are providing to works as per the requirements, arranging RO water for drinking to prevent dehydration.
x)	Arsenic and Mercury shall be monitored in emissions, ambient air and water.	Being followed.
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 should be submitted to the Ministry and its Regional Office.	Forest Department Permission Letter: RC. No: 75/2017/S, Dated 27.11.2018 – Copy Enclosed **Annexure - IV**
xiii)	The project proponent shall take all precautionary 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 status of the environmental compliances in respect of its existing plant.	Being Followed
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.	Efforts are 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 trucks are covered with a tarpaulin and are not overloaded, fly ash are transported in the closed containers only. Measures are taken for maintenance of vehicles used in mining operation. Vehicular emissions are kept under control and regularly monitored. Water sprinkling and dust suppression methods are adapted to control dust emission in the Plant Roads & Mines Roads are carried out. **Annexure – V**
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 and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted.	Efforts are made to reduce water consumption by recycling of used process water. The STP out let Treated water used for Green belt development and Roads wetting purpose to control dust emissions. The process water is recycled and no process water is discharged outside the factory. Photos are Enclosed **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 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.
xviii)	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 factory. We have STP in colony for treatment of Domestic effluent 250 KLD. The treated water used for greenbelt development in factory & colony. The wastewater & treated water, drinking water analysis done by third party. The reports are 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, clinker dust & cement dust from pollution control devices are recycled & reused in the process and used for cement manufacturing. Waste oil and batteries and e-waste is stored and disposed to authorized recyclers/ reprocesses.
xx)	The kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes and other wastes including biomass, etc.	CFO approval Obtained from State Pollution Board for utilization of Indigenes and Import Pet Coke. Amendment to CFO & HWA Order No: TSPCB/NLG/HO/CFO/2020 – 663 Dated: 17.07.2020. We have entered in to MOU for Utilization of high calorific wastes i.e. Pet Coke from MRPL. Approached surrounding municipalities and urban local bodies Huzurnagar, Kodad, Suryapet. They are unable to supply RDF.
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.	
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.	
xxiii)	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 l0oal DFO, local community and as per the CPCB guidelines.	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 in the Mines area & Schools, colony and available vacant places. Requested Forest department to allocate land for plantation. In all three mines also taken up 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	Being followed, Solar lighting arrangement made at Mining area. Arranged solar fencing along the factory boundary. **ANNEXURE – VII**

	the same regularly.	
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	1. Company provided modern housing colony with all the facilities for employs & workers. 2. 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.

	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 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.	3. Free education is provided for employees' children & village peoples up to Jr College **Annexure -VIII**
xxix)	A Risk Assessment Study and Disaster Preparedness and Management Plan along with 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.	Being followed
xxx)	To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area though the use of display signs which identifies the hazard and the associated health effects.	Being followed, Educating the works on personal safety, hazard's at all the work places. Creating awareness by arranging Display signs boards and training programs. Enclosed Photos **ANNEXURE – IX**
xxxi)	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel 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.	Being followed. Housing & necessary infrastructure and facilities are provided. Temporary structures will be removed after completion of project.
B	**GENERAL CONDITIONS**	**DETAILS OF FOLLOWUP ACTION**
i)	The project authorities must strictly adhere to the stipulations made by the Telangana Pollution Control Board and the State Government.	The stipulations made by TSPCB are adhered regularly.
ii)	No further expansion or modification of the plant shall be carried out prior approval of this Ministry of Environment, Forests and climate Change (MoEFCC)	Being followed the guidelines of MoEFCC.
iii)	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are	Being followed The ambient air quality and noise levels are monitored regularly and the levels are within the limits. And the third party reports are submitting

	anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this ministry including its Regional office at Chennai and the SPCB/CPCB once in six months	regularly to ministry including its Regional office at Chennai and the SPCB/CPCB once in six months regularly Reports Enclosed – **Annexure XIII**
iv)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	No process effluent water is generated in factory. We have STP in colony for treatment of Domestic effluent 250 KLD. The treated water used for greenbelt development in factory & colony.
v)	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 – XIII**
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	Being followed The funds have been embarked towards the total capital cost & recurring cost/annum for environmental pollution control measures. The

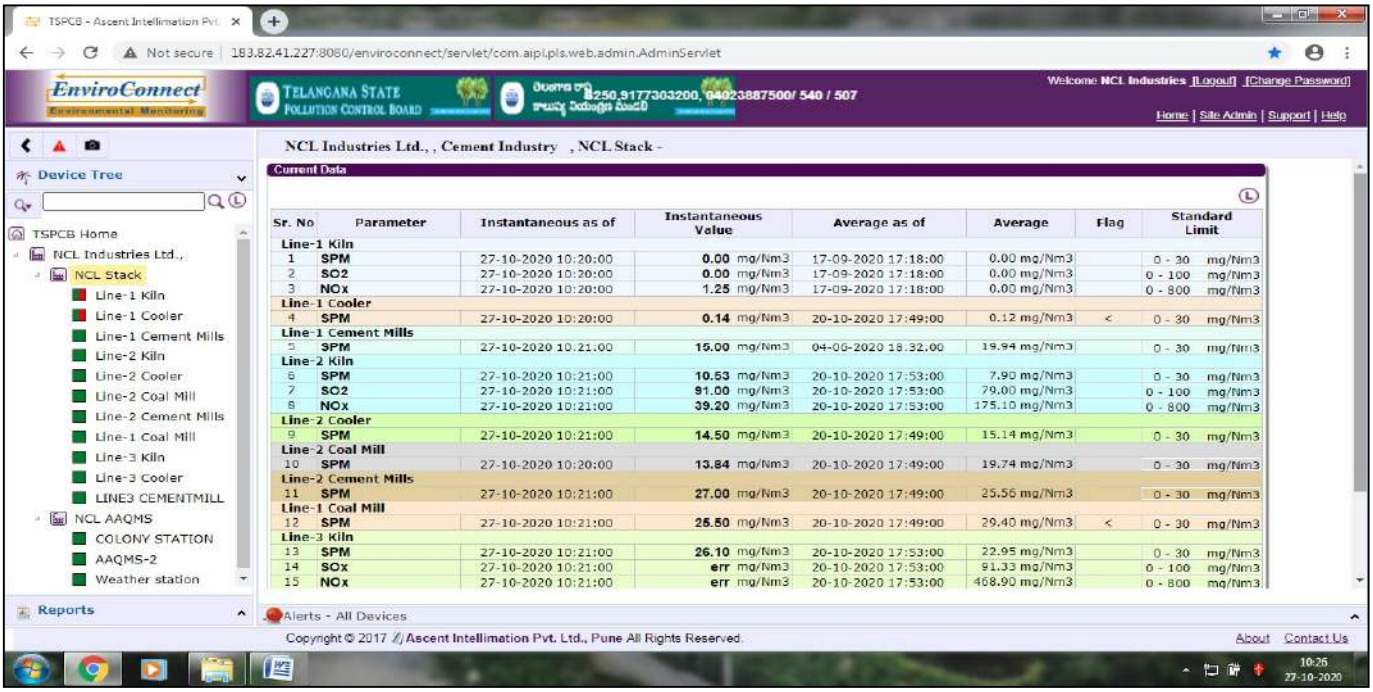
	Ministry of environments, Forest and climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chennai. The funds so provided shall not be diverted for any other purpose.	funds earmarked have not been 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 data on their website & updating the same periodically. The monitored data has displayed at the main gate. company's web site: https://nclind.com/environmental-statement.html The monitored data has displayed at the main gate **Annexure –X**
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 – XI**
xiii)	The environmental statement for each financial	Form V Submitting to TSPCB and also uploaded

	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 MOEFCC at Chennai by e-mail.	in company's web site: https://nclind.com/environmental-statement.html **Annexure – XII**
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 news papers namely The Hindu & Andhra Jyothi and 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			
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**

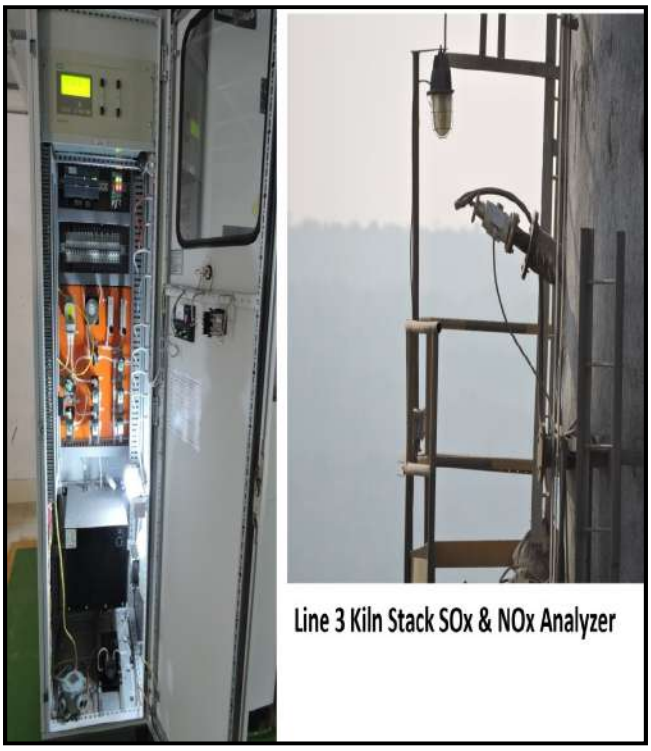
TSPCB & CPCB OCEMS & AAQMS UPLOADING SITES



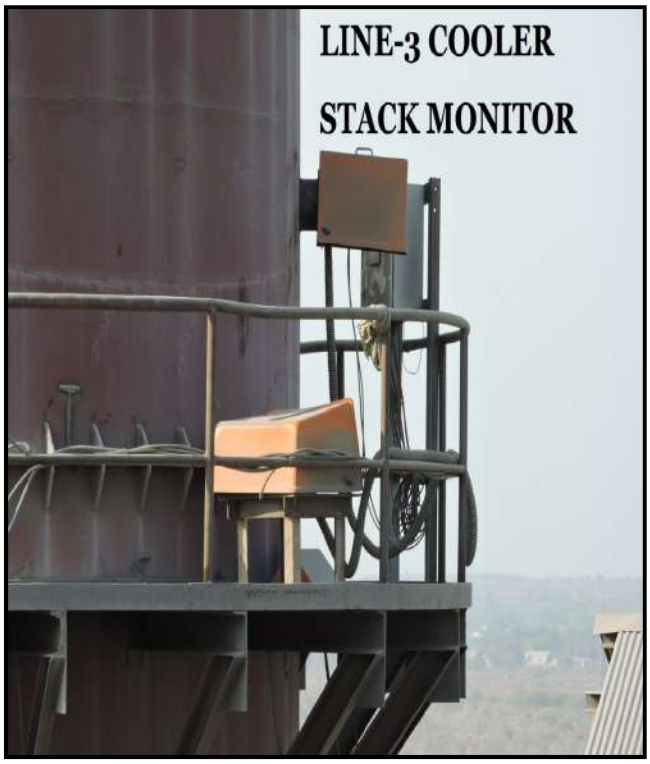
ONLINE CONTINUES AMBIENT AIR QUALITY MONITORING STATION

IN COLONY AND PLANT

ONLINE CONTINUES STACK MONITORING EQUIPMENTS



Line 3 Kiln Stack SOx & NOx Analyzer



LINE 3 CEMENT MILL DUST MONITORING SYSTEM

ANNEXURE - II

NCL INDUSTRIES LIMITED: SIMHAPURI			
Source of Pollution and Details of Air Pollution Control System			
S.No	**Source of Pollution**	**Pollution Control Equipment Provided**	**Stack Height in Mts above GL**
1	Attached to Kiln -1 & Raw Mill-1	Pulse Jet Bag Filter	110
2	Attached to Kiln -2 & Raw Mill-2	RABH	140
3	Attached to Kiln -3 & Raw Mill-3	Pulse Jet Bag Filter	130
4	Attached to Cooler-1	ESP	55
5	Attached to Cooler- 2	ESP	55
6	Attached to Cooler -3	ESP	55
7	Attached to Coal Mill-1	Bag Filter	30
8	Attached to Coal Mill-2	Bag Filter	50
9	Attached to Cement Mill-1	Bag Filter	30
10	Attached to Cement Mill-2	Bag Filter	39
11	Attached to Cement Mill-3	Bag Filter	55
12	Attached to Packer-1	Bag Filter	30
13	Attached to Packer-2	Bag Filter	30
14	Attached to Packer-3	Bag Filter	30
15	Attached to Lime Stone Crusher	Bag Filter	30
16	Attached to Blending Silo Top	Bag Filter	55
17	Attached to Pre heater Top	Bag Filter	116
18	Attached to 2875 KVA DG Set	Silencer	10
19	Attached to 300 KVA DG Set (Stand By)	Silencer	10

LIST OF POLLUTION CONTROL EQUIPMENTS & BAG FILTERS DETAILS

S.No	Group	Application	Eqpt No.	Tag	Capacity m3/hr	No of Bags	Bag Size in Mtrs	Rated KW
LINE 1								
1	Kiln	Preheater Vent - Bucket Elevator TOP	TM	BF	10000	54	0.146 x 3.05	15
2		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	PJ B H	Pulse Jet Bag House	131	BH1	245000	1280	0.149X8.095	560
5	Cooler	ESP			255000	NA	NA	225
6	Coal Mill	Mill Bag Filter (Vent)	Big	BF1	25020	210	0.147X3.050	110
7		Hopper Bag Filter	Small	BF2	10000	90	0.147X3.050	
8		Coal Pumping	New	BF3	8000	60	0.149 x 3.660	15
9	Raw Mill 3	Vent Bag Filter		BF1	24240	90	0.146 x 3.050	55
10		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		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		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

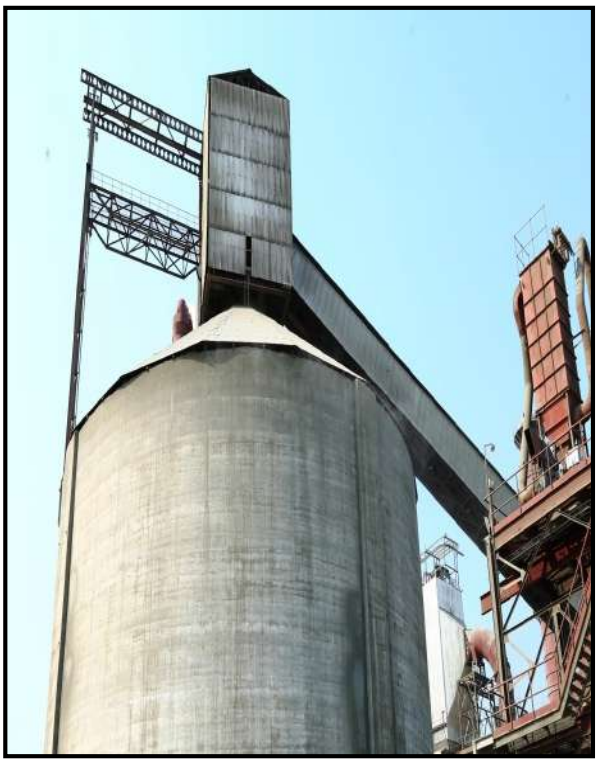
20	VRM	Silo bucket elevator	371	BF1	16500	100	0.150 X 3.6	30
21	RABH	VRM Bag House	431	BH1	640000	1680	0.292 X 10.8	500
22	B.Silo & KILN FEED	Blending Silo TOP	412	BF1	11000	64	0.150 X 3.6	22
23		Blending Silo	422	BF1	5500	36	0.150 X 3.6	15
24	Pyro process	Pre heater top	422	BF2	8800	36	0.150 X 3.6	15
25		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	BH Top	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
40	Packing Plant	Cement Silo Top	611	BF1	6600	36	0.150 X 3.6	11
41		Big Bag Filter	611	BF2	27500	168	0.150 X 3.6	37
42		Packer vent Bag Filter	611	BF3	16500	100	0.150 X 3.6	22
Line 3								
43	Kiln feed	Vent bag filter for bin feed	411	BF1	10000	76	0.149 x 3.665	15
44	Kiln feed	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	Clinker transport	Vent bag filter for 491	491	BF1	18600	144	0.149 x 3.665	30
48		Vent bag filter for 491	491	BF2	17600	140	0.149 x 3.665	22
49		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 Dosing	Vent bag filter for fine coal bin L91 BI1	L91	BF1	3000	24	0.149 x 3.665	5.5
57		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 grinding	Cement mill vent BF	561	BF1	58000	448	0.149 x 4.565	110
66		Separator vent bag filter	581	BF1	27000	210	0.149 x 4.565	410
67	Cement silo	Vent bf for silo top	611	BF1	7500	64	0.149 x 3.665	11
68		Vent bag filter for collecting bin	611	BF2	3500	30	0.149 x 3.665	5.5
69	Packing Plant	Vent bag filter for bucket elevator & air slide	611	BF3	5000	40	0.149 x 3.665	5.5
70		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 conveying	Vent bag filter for bin	482	BF2	5000	40	0.149 x 3.665	11
73		Vent bag filter	L91	BF3	8000	64	0.149 x 3.665	11
74	PJBH	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

PRODUCTS STORAGE SILOS WITH BAG FILERS INSTALLED AT TOP

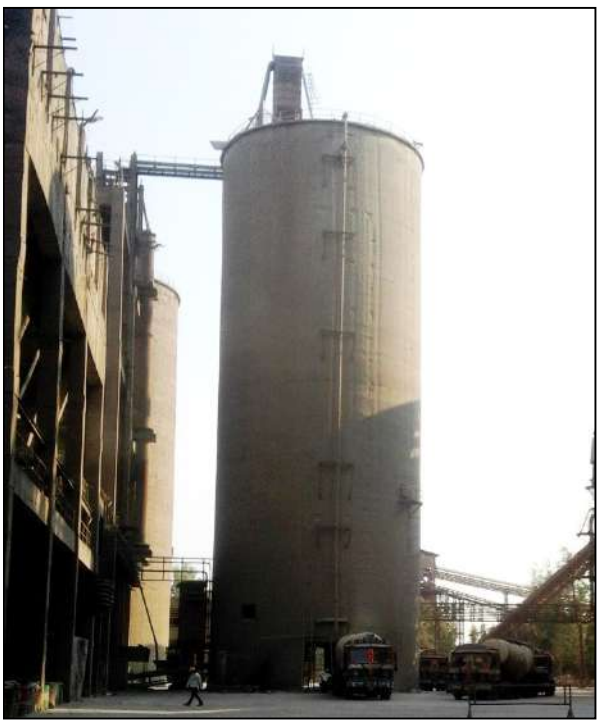
Line3 Clinker Silo



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

COAL STORAGE SHEDS

ANNEXURE –IV

FOREST DEPARTMENT PERMISSION LETTER

GOVERNMENT OF TELANGANA
FOREST DEPARTMENT

From:
Sri. G. Mukund Reddy, Dy.C.F.,
District Forest Officer,
Suryapet.

To:
The Managing Director,
M/s NCL Industries Ltd.,
Hyderabad.

RC.No.75/2017/S, Dt:27.11.2018

Sir,

Sub : TSFD - TSPCB - RO - NLG - Environmental Public Hearing (EPH) - M/s NCl Industries Ltd. has proposed for enhancement of Sulthanpur Thanda Lime stone Mine capacity from 0.05 MTPA to 1.0 MTPA located at Sy.No.540 (P), Pedaveedu (V), Mattampally (M), Suryapet District - Status report - Reg.

Ref: 1. NCL Industries Ltd., Ref.No.NCL/Forests Dept, Dt.01.09.2018.
2. NCL Industries Ltd., Ref.No.NCL/Forests Dept, Dt.26.11.2018.

* * *

With reference to the subject and reference cited above, the M/s NCL Industries Ltd., had requested for Status report for the proposal of enhancement of Sulthanpur Thanda Lime Stone Mine production capacity from 0.05 MTPA to 1.0 MTPA located in Sy.No.540 (P), of Pedaveedu (V), Mattampalli (M), Suryapet District in mine lease area of 42.83 Ha.

The undersigned had inspected the mining area together with Forest Range Officer, Huzurnagar 15th September, 2018. The plan submitted by M/s NCL Industries Ltd., showing the Mining Lease area (With GPS Readings) for Limestone Deposit in Sy.No.540 over an extent of Ac. 105.32 gts (42.83 Ha) in Pedaveedu Village, Mattampalli Mandal, Suryapet District (Erstwhile Nalgonda District), Duly approved by Tahasildar, Mattampally Mandal and Asst. Director of Mines & Geology, Miryalaguda has also been referred.

It is confirmed that:

1. The said location does not fall in the Forest Area, but the area is adjacent to the Reserve Forest about 170 meters and it should comply recent guidelines/ Circular from the MoEF.
2. There are no dispute issues with Forest Department but the wasta material mainly the panel cut portions is being dumped along road side even in Reserve Forest areas which has to be removed and in future waste disposal to be in designated areas as per mine plan.
3. The area is completely preexisting mining area of NCL Industries Ltd., from 1996. Hence the green cover other conditions that are in mining plan to be properly implemented.
4. No perennial nallah or streams are seen within the area.
5. There are no endangered species of flora existing in the area and it has neither ecological nor economic importance and normal species of brushes and bushes are only seen.
6. No sanctuary and national parks does not exist within the above area.

Hence, it is inform that, there are no issues for enhancement of Sulthanpur Thanda Lime Stone Mine production capacity from 0.05 MTPA to 1.0 MTPA located in Sy.No.540 (P), of Pedaveedu (V), Mattampalli (M), Suryapet District in mine lease area of 42.83 Ha.

District Forest Officer,
Suryapet.

Annexure -V

PRECURSORY MASSEURS TAKEN FOR REDUCE WATER CONSUMPTION

RAIN WATER STORAGE IN MINESRAIN HARVESTING PITS

RO REJECT WATER STORING & USING FOR PLANTATION & ROAD WETTING

WATER DRIPPING ARRANGEMENT

SEWAGE TREATMENT PLANT (STP) IN COLONY

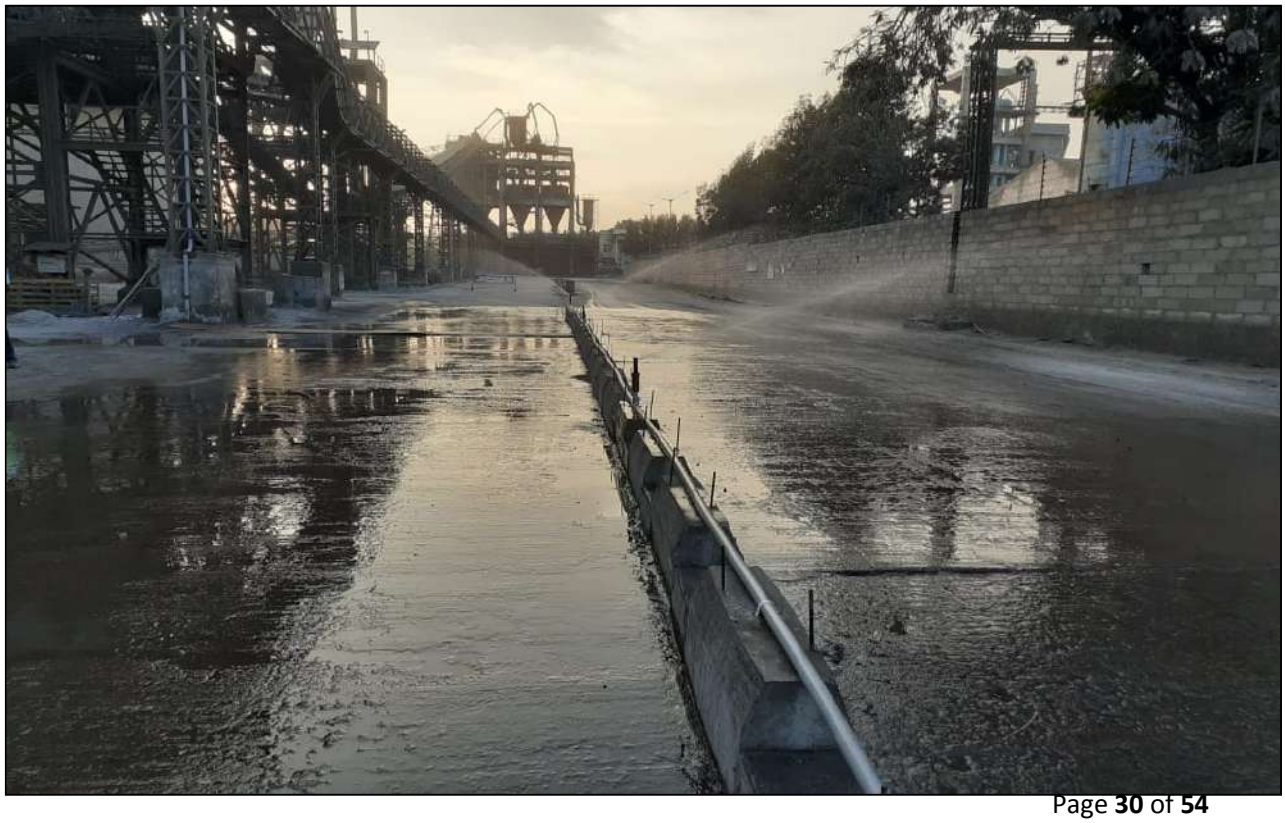
STP TREATED WATER USED FOR GREEN BELT DEVELOPMENT

Road wetting with water tanker at Mines Roads & Plant

ROAD ARE CLEANING WITH ROAD SWEEPING MACHINES

HIGH CAPACITY TRUCK MOUNTED ROAD SWEEPING MACHINE WITH WATER SPRINKLING FACILITY

FIXED WATER SPRINKLERS ARE ARRANGED ON ROADS



FIXED WATER SPRINKLERS ARE ARRANGED ON ROADS

TRUCKS ARE COVERED WITH TARPAULIN & CLOSED CONTAINERS

Annexure -VI

GREENBELT DETAILS

S.No	Description	Area Hectares	% Green Belt
1	**Plant Built up Area**	12	
2	**Colony**	8	
3	**Green Belt**	17.38	**36.12%**
4	**Roads**	10.74	
	Total Plant & Colony Area	48.12	

IN HOUSE NURSERY DEVELOPED

Green Belt at Colony & Plant

ANNEXURE –VII

SOLAR PANEL LIGHTING SYSTEM

SOLAR POWERED TRAFFIC BLINKERS

SOLAR FENCING AT FACTORY WALL

NCL HIGH SCHOOL & JR COLLEGE AT MATTAPALLY **ANNEXURE –VIII**

PRIMARY HEALTH CENTER

ANNEXURE –IX

PPE USAGE DISPLAY SIGNS BOARDS IN PLANT & TRAINING PROGRAMS

Annexure – X

THE MONITORED DATA HAS DISPLAYED AT THE MAIN GATE

ANNEXURE -XI

Submission letter of EC – Compliance Reports for the Period of Oct to March 2020

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,
Nungambakkam, Chennai – 600034.

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.,

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

ANNEXURE - XII

SUBMISSION LETTER OF ENVIRONMENT STATEMENT AUDIT REPORT - FORM V FOR 2019-20

NCL INDUSTRIES LIMITED

CEMENT DIVISION

AN ISO 9001 : 2015 COMPANY
CIN : L33130TG1979PLC002521
// REGISTERED POST A/D//

NCL/QC/ENVT/2020-21/278 Date: 29.06.2020

To

The Member Secretary,
TSPC Board,
Paryavaran Bhavan,
A-3, Industrial Estate,
Sanathnagar,
HYDERABAD – 500 018.

Sub: Submission of Environmental Statement Audit Report Form – V for the Year 2019 -20.

Ref: Amendment of CFO&HWA Order No: - TSPCB/RCP/NLG/HO/CFO/2018 - 2563;
Dated: 19/11/2018.

Dear Sir,

With reference to the above cited subject, we are here with submitting three copies of Environmental Statement Audit Form –V for the financial year ending March 2020.

Kindly acknowledge the receipt of the same.

This is for your kind information.

Thanking you.

Yours faithfully,

For NCL INDUSTRIES LIMITED

S. Chakradhar
President - Works

Encl: As above.

Copy to: The Environmental Engineer, TSPC Board, Regional Office,
H.No.8-15,1st Floor, Sri Laxmi Complex,Near RTA office,
Sri Vinayak Nagar, NALGONDA 508 201, TELANGANA.

o/c

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

ANNEXURE - XIII
NCL INDUSTRIES LTD
CEMENT DIVISION
MATTAPALLY

STP Waste Water Analysis Reports APRIL TO SEPTEMBER - 2020

Sample Location	Before Treatment STP						After Treatment STP					
Date	pH	TDS	TSS	COD	BOD	Oil & Grease	pH	TDS	TSS	COD	BOD	Oil & Grease
22.05.2020	7.24	841	135	223	40	1.7	7.37	791	40	61	11	<1.0
16.06.2020	7.38	863	146	210	45	1.5	7.66	782	44	67	9	<1.0
26.07.2020	7.82	876	151	229	48	1.6	7.48	765	39	63	7	<1.0
28.08.2020	7.53	890	142	215	40	1.4	7.62	793	42	69	10	<1.0
19.09.2020	7.4	936	155	234	46	1.7	7.75	826	47	73	12	<1.0
Avg	**7.47**	**881**	**146**	**222**	**44**	**1.6**	**7.58**	**791**	**42**	**67**	**10**	**<1.0**

ANNEXURE - XIII
NCL INDUSTRIES LTD
CEMENT DIVISION
MATTAPALLY
STACK EMISSION DATA APRIL TO SEPTEMBER 2020

Stack Attached to process	Kiln -1			Kiln -2			Kiln -3			Cooler -1	Cooler -2	Cooler -3	CM 1	CM 2	CM 3	PP 1	PP 2	PP 3	Coal Mill -1	Coal Mill -2	Lime Stone Crusher -II
DATE	SPM	So2	Nox	SPM	So2	Nox	SPM	So2	Nox	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
21.05.20				15.3	13	326	11	6	415			13	18		9					18	
22.05.20											13			14		18.7	23	22	21		21
16.06.20				11.5	53	257	23	28	316			16	24	10	7.2			18			
17.06.20	shutdown										22					17.9	22		20	18	19
25.07.20				21	57	395	20	27	269			14.5	21	17		19.3					
26.07.20															11		23		12	19	22
27.07.20											26							21			
26.08.20	25	39	112	9.5	75	155				21			19.1		16				10		
27.08.20											19			25			22			16	24
28.08.20																17.4		19			
18.09.20				11.3	43	166				shut down				14			20		13	15	21
19.09.20							26	24	122		26	13			10	21.7		15			
21.09.20	shutdown												17								
Avg				14	48	260	20	21	280		21	14	20	16	11	19	22	19	15	17	21

ANNEXURE - XIII

NCL INDUSTRIES LTD

CEMENT DIVISION MATTAPALLY

AMBIENT AIR QUALITY DATA OCTOBER TO MARCH 2020

Date / Location	Near Security				Near Colony				Near Guest House				Near Time Office			
Parameter (µg/m^3)	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox
06.05.2020	**70**	**26**	**12**	**25**	**58**	**22**	**9**	**21**	**51**	**19**	**6**	**19**	**76**	**29**	**7**	**22**
21.05.2020	64	23	11	20	55	19	7	22	48	16	10	16	72	27	13	26
02.06.2020	68	22	9	23	54	20	11	18	49	17	10	21	72	28	13	25
16.06.2020	62	22	10	22	57	20	8	17	49	18	11	19	70	25	9	24
09.07.2020	75	30	10	26	56	18	9	16	43	14	7	19	67	27	12	21
24.07.2020	68	26	13	25	59	21	7	20	45	15	6	18	64	23	11	22
11.08.2020	72	28	11	21	58	23	10	18	50	16	8	20	69	25	14	23
26.08.2020	66	24	12	23	54	19	8	18	49	17	7	16	62	21	10	20
03.09.2020	68	26	10	19	52	19	7	15	64	23	13	23	72	29	12	25
18.09.2020	76	30	14	26	56	22	9	16	70	27	11	22	65	25	13	24
Avg	**69**	**26**	**11**	**23**	**56**	**20**	**9**	**17**	**52**	**18**	**9**	**20**	**68**	**25**	**12**	**23**

ANNEXURE - XIII

NCL INDUSTRIES LTD

CEMENT DIVISION -MATTAPALLY

FIGITIVE EMISSION DATA APRIL TO SEPTEMBER 2020

Location	Coal Transport								Cement Mill Transport							
Direction	Wind Ward Direction				Lee Ward Direction				Wind Ward Direction				Lee Ward Direction			
DATE	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox
22.05.2020	70	28	12	21	82	36	10	24	**68**	**26**	**10**	**21**	**76**	**33**	**13**	**26**
17.06.2020	74	29	7	22	80	34	12	25	66	23	9	20	73	30	12	24
25.07.2020									70	25	7	18	75	32	10	21
26.07.2020	70	27	12	20	78	33	14	27								
27.08.2020									72	27	11	22	78	34	13	25
28.08.2020	67	25	10	23	73	29	12	25								
19.09.2020									63	22	9	18	67	26	10	22
20.09.2020	64	22	7	18	68	27	11	21								
Avg	**69**	**26**	**10**	**21**	**76**	**32**	**12**	**24**	**68**	**24**	**9**	**20**	**73**	**31**	**11**	**23**

Location	VRM Silo Top								VRM Additive Feeding							
Direction	Wind Ward Direction				Lee Ward Direction				Wind Ward Direction				Lee Ward Direction			
Date	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox	PM_{10}	$PM_{2.5}$	SO_2	Nox
22.05.2020	65	26	9	18	78	32	12	20	**64**	**23**	**8**	**20**	**69**	**27**	**11**	**24**
17.06.2020	69	27	12	20	75	30	8	23	67	24	9	22	71	29	7	20
25.07.2020									63	22	11	19	68	27	13	24
26.07.2020	60	23	10	22	67	28	13	26								
27.08.2020									60	21	8	17	72	30	12	21
28.08.2020	56	21	7	20	65	26	11	23								
19.09.2020									66	24	10	20	70	28	15	26
20.09.2020	60	23	9	22	73	29	12	25								
Avg	**62**	**24**	**9**	**20**	**72**	**29**	**11**	**23**	**64**	**23**	**10**	**20**	**70**	**29**	**12**	**23**

ANNEXURE XIII

NCL INDUSTRIES LTD

CEMENT DIVISION -MATTAPALLY

NOISE LEVEL DATA APRIL to SEPTEMBER 2020

Location	Kiln 1		Kiln 2		Cement Mills - 1		Cement Mills -2		Raw 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	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
22.05.2020	72	67	74	69	68	63	69	64	70	65
17.06.2020	73	68	70	65	66	61	68	63	72	67
26.07.2020	71	66	74	69	67	62	66	61	69	64
27.08.2020	69	64	72	67	68	63	67	62	70	65
19.09.2020	67	62	70	65	69	64	66	61	73	68
Avg	**70**	**65**	**72**	**67**	**68**	**63**	**67**	**62**	**71**	**66**

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

TEST REPORT

REF.NO: LAWN/NCL-C/2020 Date: 30-5-2020

WATER ANALYSIS

Name of the Industry & : **M/s. NCL INDUSTRIES LIMITED (Cement Division)**

Address : Simhapuri, Mattapalli (V), Mattampally (M), Suryapet (Dist – 508 204.

Sample Particulars : Drinking Water (RO Plant)
Date of Collection : 22-5-2020
Date of Analysis : 23-5-2020
PROTOCOL : IS – 3025 & A.P.H.A. 23rd Edition

			As per IS:10500 – 2012 Permissible Limit
1. Color (Hazen units)		: <1.0	15 max
2. Odour		: Agreeable	Agreeable
3. pH at 25°C		: 7.82	6.5 – 8.5
4. Taste		: Agreeable	Agreeable
5. Turbidity (NTU)		: <0.10	05 max
6. Dissolved solids at 180°C		: 47	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 agents	as MBAS	: ND	1.0 max
12. Barium	as Ba	: <0.001	0.7 max
13. Boron	as B	: <0.01	1.0 max
14. Calcium	as Ca	: 04	200 max
15. Chloramines	as (Cl2)	: ND	4.0 max
16. Chlorides	as Cl	: 4.80	1000 max
17. Copper	as Cu	: <0.001	1.5 max
18. Flourides	as F	: 0.20	1.5 max
19. Residual Chlorine		: <0.04	1.0 max
20. Iron	as Fe	: 0.03	0.3 max
21. Magnesium	as Mg	: 2.34	100 max
22. Manganese	as Mn	: <0.001	0.3 max

Cont..

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

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

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

23. Mineral Oil		: ND	0.5 max
24. Nitrates	as NO_3	: 0.26	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 SO_4	: 1.70	400 max
29. Sulphide	as H2S	: <0.02	0.05 max
30. Total alkalinity	as $CaCO_3$	: 10	600 max
31. Total hardness	as $CaCO_3$	: 15	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

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TEST REPORT

REF.NO: LAWN/NCL-C/2020

Date: 03-9-2020

WATER ANALYSIS

Name of the Industry & : **M/s. NCL INDUSTRIES LIMITED (Cement Division)**

Address : Simhapuri, Mattapalli (V), Mattampally (M), Suryapet (Dist – 508 204.

Sample Particulars : Drinking Water (RO Plant)
Date of Collection : 28-8-2020
Date of Analysis : 29-8-2020
PROTOCOL : IS – 3025 & A.P.H.A. 23rd Edition

			As per IS:10500 – 2012 Permissible Limit
1. Color (Hazen units)		: <1.0	15 max
2. Odour		: Agreeable	Agreeable
3. pH at 25°C		: 7.65	6.5 – 8.5
4. Taste		: Agreeable	Agreeable
5. Turbidity (NTU)		: <0.10	05 max
6. Dissolved solids at 180°C		: 43	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 agents	as MBAS	: ND	1.0 max
12. Barium	as Ba	: <0.001	0.7 max
13. Boron	as B	: <0.01	1.0 max
14. Calcium	as Ca	: 3.70	200 max
15. Chloramines	as (Cl2)	: ND	4.0 max
16. Chlorides	as Cl	: 4.46	1000 max
17. Copper	as Cu	: <0.001	1.5 max
18. Flourides	as F	: 0.16	1.5 max
19. Residual Chlorine		: <0.04	1.0 max
20. Iron	as Fe	: 0.05	0.3 max
21. Magnesium	as Mg	: 2.17	100 max
22. Manganese	as Mn	: <0.001	0.3 max

Cont..

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23. Mineral Oil		: ND	0.5 max
24. Nitrates	as NO_3	: 0.24	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 SO_4	: 1.58	400 max
29. Sulphide	as H2S	: <0.02	0.05 max
30. Total alkalinity	as $CaCO_3$	: 9.30	600 max
31. Total hardness	as $CaCO_3$	: 14	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

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NCL INDUSTRIES LIMITED :: SIMHAPURI

PLANT AND MINES :: ENVIRONMENTAL CLEARENCE COMPLIANCE REPORT

Half Yearly EC Compliance Report for the period of April to September 2020

MOEF Vide Letter No: Ref: F. No. J-11011/576/2008-IA II (I), Dated 15.12. 2009

A	SPECIFIC CONDITIONS	COMPLIANCE STATUS
i)	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 was started without obtaining prior Clearances/approvals from the Indian Bureau of Mines (IBM) and State Govt. Obtained permission for three mines i. Mattapalli Lime Stone Mines G.O No 65 valid up to 13.10.2030, ii. Gundlapally Lime stone Mines G.O No 64 valid up to 21.10.2040, iii. Sulthanpur Thanda Lime stone Mines GO No 63 valid up to 28.10.2046. A copy of all the mining lease approvals from IBM & State Govt. were submitted to the Ministry & Regional Office at Bangalore before initiating work at site related to mining.
ii)	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 further expansion or modification will be carried out without prior clearances/approvals 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.	11 MW 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, Order No: 02/TSPCB/CFE/STP/RO-NLG/HO/ 2020 Dt: 29/09/2020 Project Work Photos Enclosed as **Annexure – I**
iv)	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 equipments are installed in all major stacks ie; in all the three lines - Kiln, Cooler & Coal mill and cement mills. Equipments connected and uploading data to website of CPCB & TSPCB. In addition to these, two CAAQM stations also installed and connected to CPCB & TSPCB The data SPM being controlled within the limits by installing following Pollution Control 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 ➢ 11MW 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 transfer lines & LS Crushers, fine coal bins and silos, pre-heater top deducting equipments, kiln feed extraction equipment & packing plants etc. The stack emission levels are within 30 mg/Nm3. **ANNEXURE - II**
v)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No.826 (E) Dt. 16-11-2009 shall be followed.	Being followed, As per NAAQ standards third 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 **ANNEXURE-XII**
vi)	Ambient Air Monitoring shall be carried out in the nearby villages & efforts shall be made to control & minimize the particulate matters to bare minimum. The company shall install adequate dust collection & extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Crusher shall be operated with high efficiency bag filters. All conveyors shall be covered with GI sheets. Covered sheds for storage of materials shall be provided besides coal, cement, fly ash & Clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	Ambient Air Monitoring carried out in the nearby villages. Efforts are made to control & minimize the particulate matters to bare minimum. The company has installed adequate dust collection & extraction system like Bag filters & Air slides to control fugitive dust emissions at various transfer points, raw material handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Crusher is operated with high efficiency bag filters and water spray system is provided at crusher dump hopper to control fugitive emissions. All conveyors are covered with GI sheets. Covered sheds for storage of materials are provided besides coal, cement, fly ash & Clinker is stored in silos. Pneumatic system is used for fly 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 **ANNEXURE-XII**
vii)	Regular water sprinkling shall be carried out in critical areas prone to air pollution & having high levels of SPM & RPM particularly in mine area & other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the CPCB in this regard.	Regular Water Sprinkling is carried out using dedicated three water tankers in critical areas particularly in mine area & other vulnerable areas and Fixed Water Sprinklers are arranged on Roads to suppress the dust. Prone to air pollution & having high levels of SPM & RSPM, ambient air quality parameters are within the limits of norms 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 sprinkling and dust suppression methods are adopted to control dust emission in the cement plant area are carried out. 1. Road sweeping machines are being used for cleaning of roads regularly. 2. Water sprinkling is carried out regularly through a dedicated three water tanker to control fugitive emissions. 3. Fixed Water Sprinklers are installed to suppress the dust while Vehicles movement. Photos are enclosed as **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 sources is controlled and levels are within the latest permissible limits issued by the Ministry The monitored data are submitted to Ministry's Regional Office. The secondary fugitive emissions are in control and within the prescribed limits as per the Guide lines /code of practice issued by the CPCB. Secondary fugitive emissions are being controlled by adopting the following techniques. a) Storing the raw materials and products in closed sheds. b) Regular water sprinkling is carried out on road. c) Road sweeping machines are being used 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 sprinkling and dust suppression methods are adopted to control dust emission at all around the critical areas prone to air pollution and having high levels of SPM & RPM in the cement plant area are 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 agricultural land. All the raw materials including fly ash are transported in the closed containers only covered with a tarpaulin and are not generally overloaded. Measures are taken for maintenance of vehicles used in mining operation of mineral. Vehicular emissions are kept under control and regularly 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 processing 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 on 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 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.
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.	High calorific value pet coke is purchased from MRPL and will be used in the Process.
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).	The fly ash supplies from out side are utilized in making Pozollona Portland Cement (PPC) as per the Fly Ash Notification, 1999 subsequently amended in 2003.

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 out 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.	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 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.
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 belt 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 No: 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/2017-3266 Dt: 03.03.2017 validity 31.03.2022
xIi)	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**
xIii)	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 are 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.	Acoustic enclosures provided to control noise in DG sets. Noise in cooler fans, compressor house, cement mill, raw mill & drilling machines, excavator, persons involved for blasting at mine site and controlled noise levels.
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 occupational health surveillance within and outside the campus in the nearby villages. 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 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-by villages to control flurosis in the area.RO plant is installed in the colony premises for drinking water 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 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. 5. Replaced the damaged filter bags with new bags at all Air Pollution control Bags Filters. 6. Reduced the emission of Particulate Matter below 30 mg/ Nm^3. 7. Fugitive emissions' are controlled at raw materials/ products storage and transfer points by installing Air Pollution Control Devices 8. Tripping of the Kiln ESP is minimized by water spraying in the cooler.
xIviii)	The company shall comply with the commitments made during Public Hearing on 26th May, 2009.	The commitments made during Public Hearing are 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 environment clearance is obtained.
B	**GENERAL CONDITIONS**	**COMPLIANCE**
i)	The project authority shall adhere to the stipulations made by TSPCB & State Government.	The stipulations made by TSPCB are adhered 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 plant 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.	Installed online continuous ambient air quality monitoring equipments as well as online stack monitoring equipments and as per the data the parameters are well within the limits. Interlocking facility is provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) will be shut down automatically. **ANNEXURE – II**
iv)	Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB & report submitted to TSPCB quarterly & to Ministries Regional Office at Bangalore half-yearly.	Monitoring of ambient air quality and stack emissions are carried out regularly in consultation with TSPCB & report submitted to TSPCB monthly & to Ministries Regional Office at Chennai half-yearly. The third party monitored reports are enclosed **ANNEXURE-XII**
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 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.

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 emergency 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 prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) & 70 dBA (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 six locations during day and night 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 environmental 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 total capital cost & recurring cost/annum for environmental pollution control measures. The funds earmarked have not been diverted for any other purpose.
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.

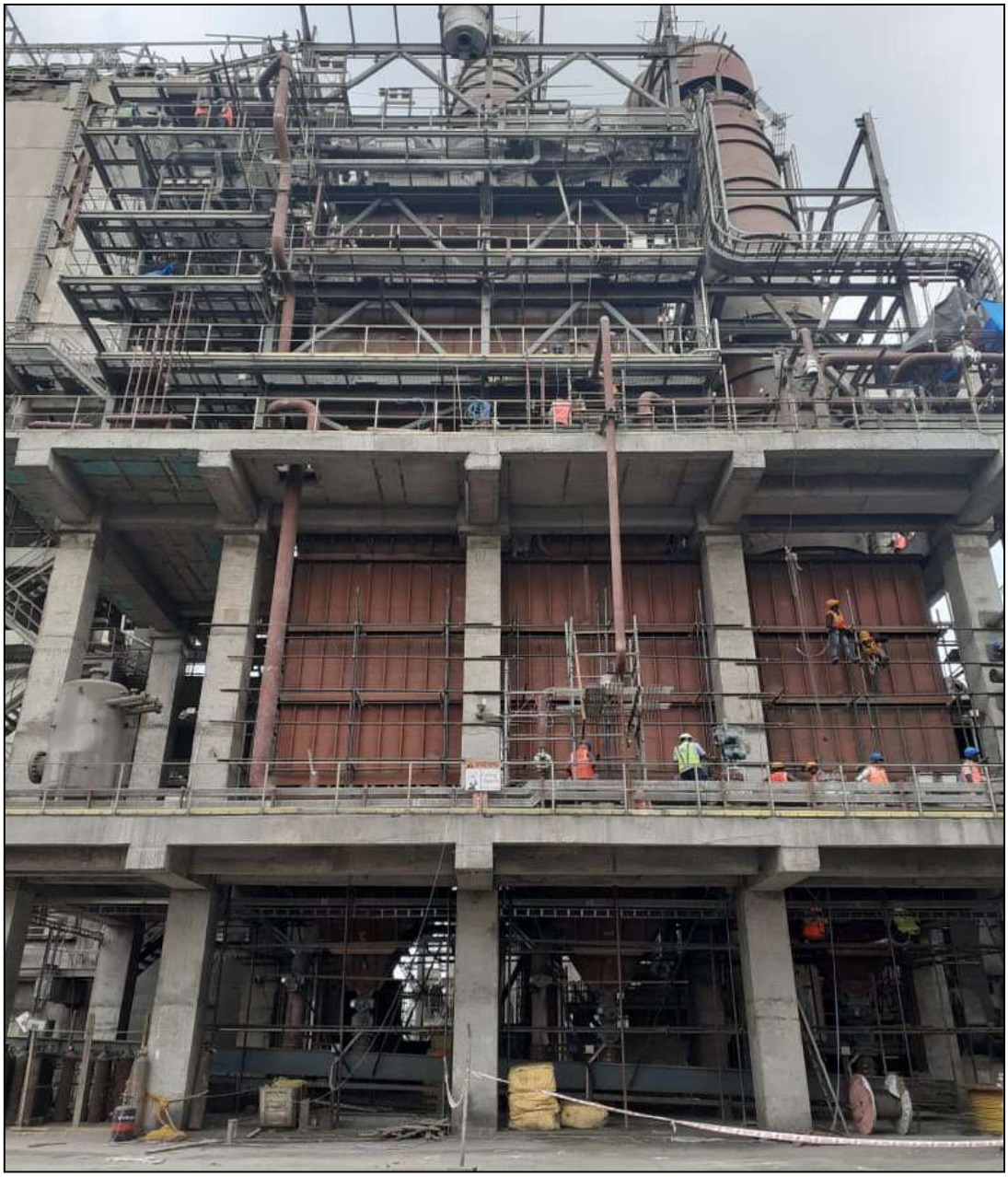
xiv)	The project proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent the Regional Office of MOEF, the respective Zonal Office of CPCB & the APPCB. The criteria pollutant levels namely; RSPM, PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the 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 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 of monitored data (both the copies as well as by e-mail) to the Regional Office of MOEF, the Zonal Office of TSPCB. https://nclind.com/environmental-statement.html **ANNEXURE – 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. https://nclind.com/environmental-statement.html **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 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

WHR PROJECT SITE PHOTOS

AQC 2 BOILER

AQC 3 BOILER



PRE HEATER BOILER

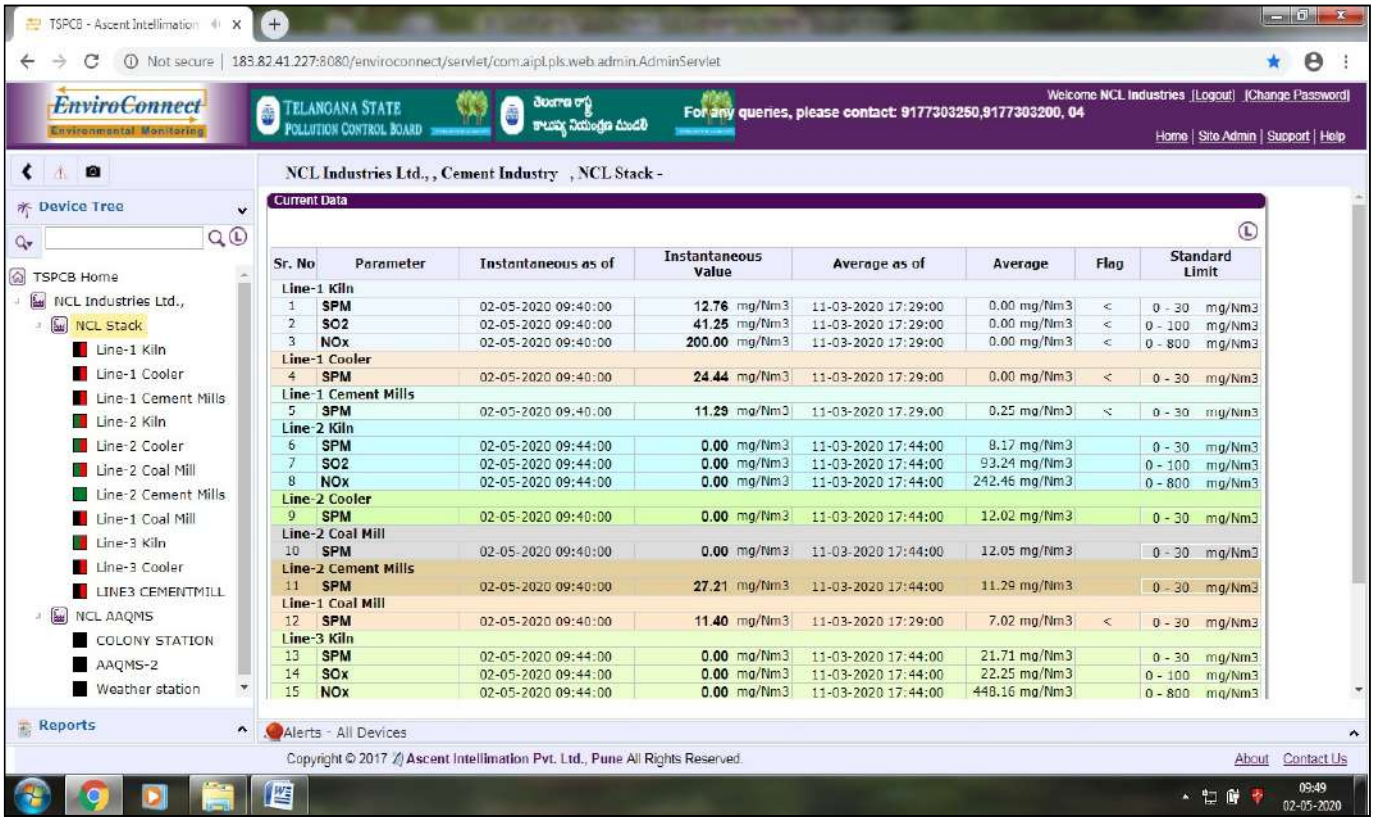
COOLING TOWERS & WTP

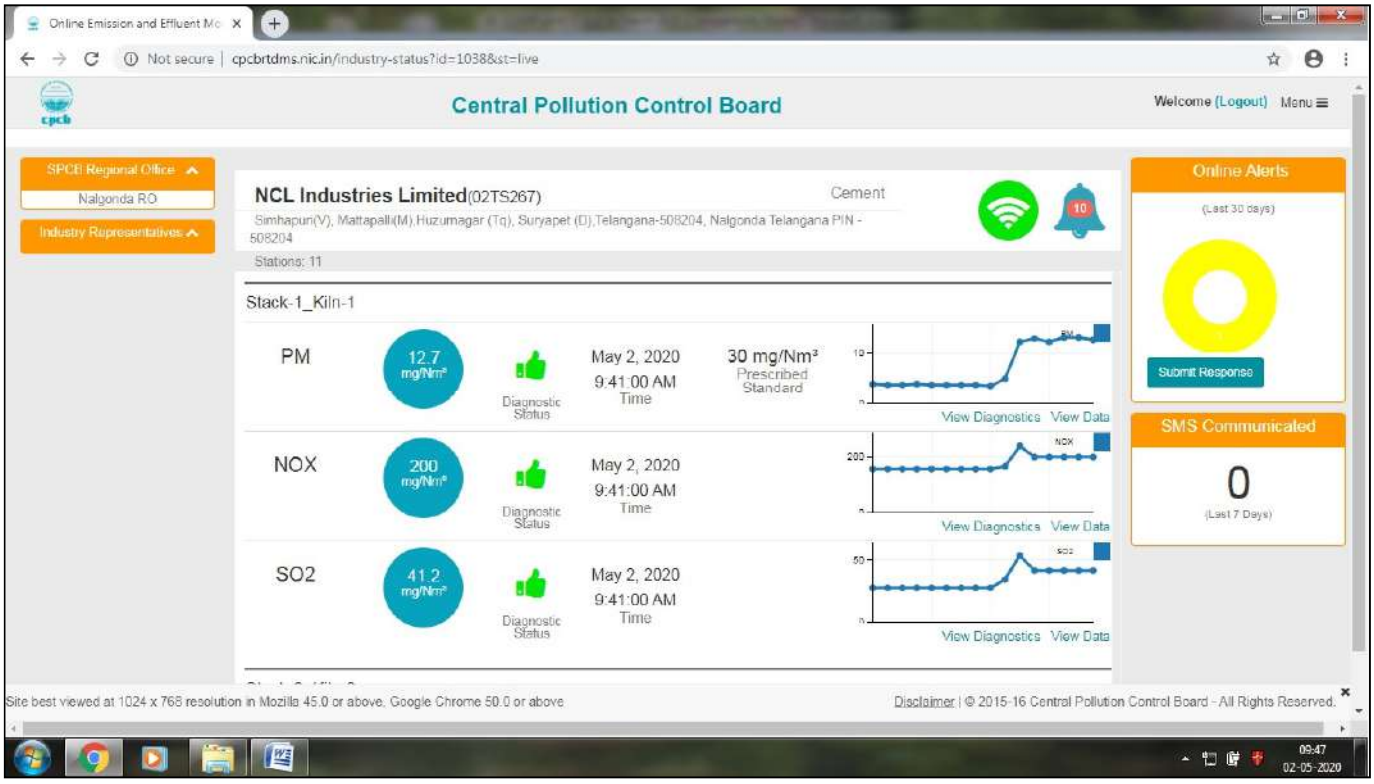
STEAM TURBINE & GENERATOR

ANNEXURE II

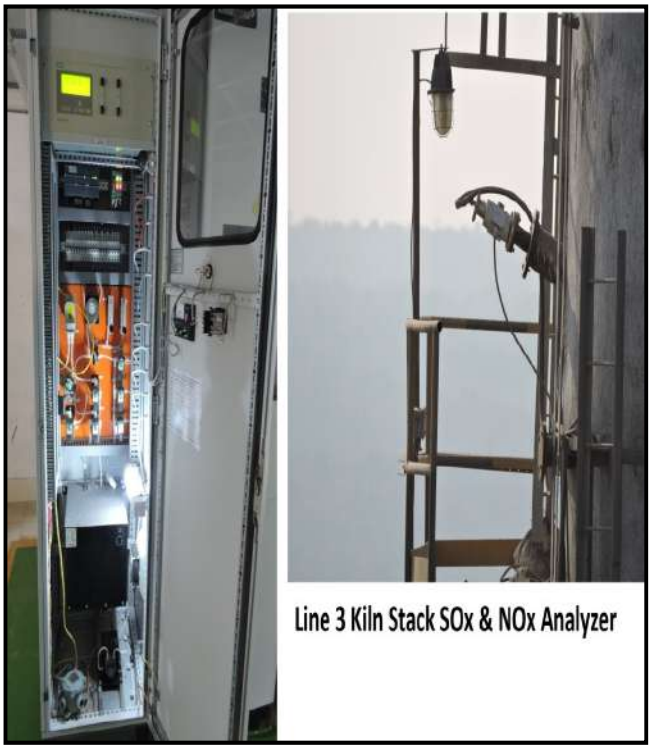
NCL INDUSTRIES LIMITED: SIMHAPURI			
On-line Continuous Stack Monitoring System (OCSEMS) and Continuous Ambient Air Quality Monitoring Systems (CAAQMS) Stations			
S.No.	**Stack attached**	**Type of Monitoring System (Emission / Effluent / CAAQMS)**	**Stack ID**
1	**Line-1 Kiln**	**Emission**	**NCL Industries 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**

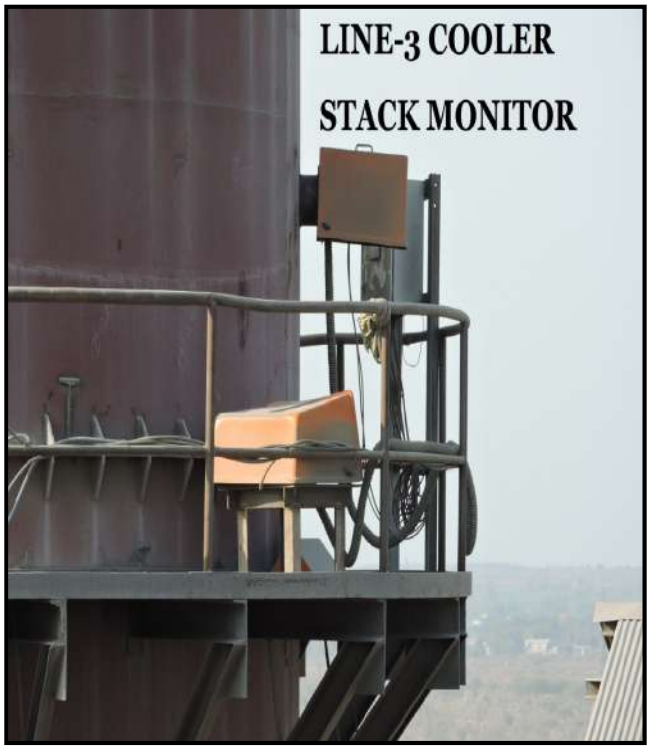
TSPCB & CPCB OCEMS & AAQMS UPLOADING SITE





CAAQMS IN COLONY





ANNEXURE-III

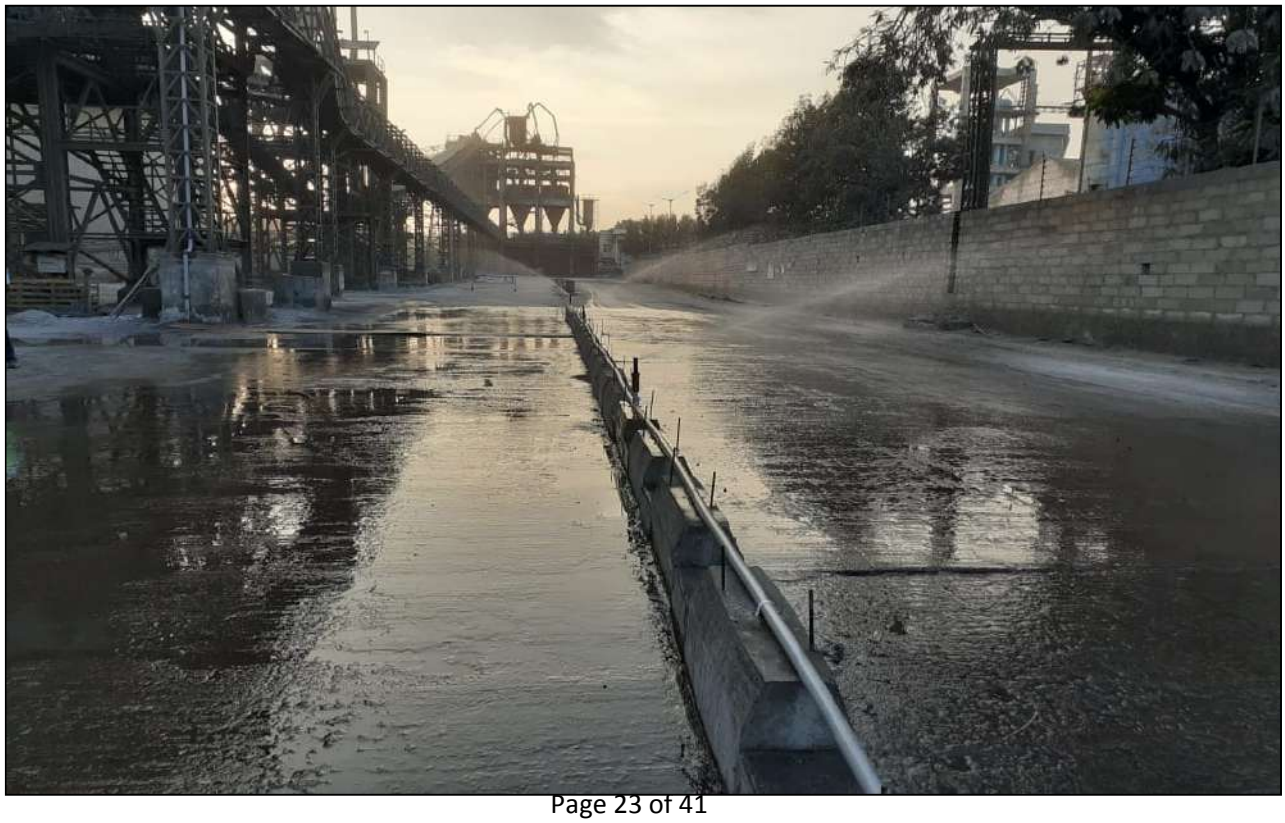
ALL RAW MATERIALS ARE TRANSPORTED IN CLOSED CONTAINERS/ FULLY ENCLOSED

Road wetting with water tanker at Mines Roads & Plant

ROAD ARE CLEANING WITH ROAD SWEEPING MACHINES

HIGH CAPACITY TRUCK MOUNTED ROAD SWEEPING MACHINE WITH WATER SPRINKLING FACILITY

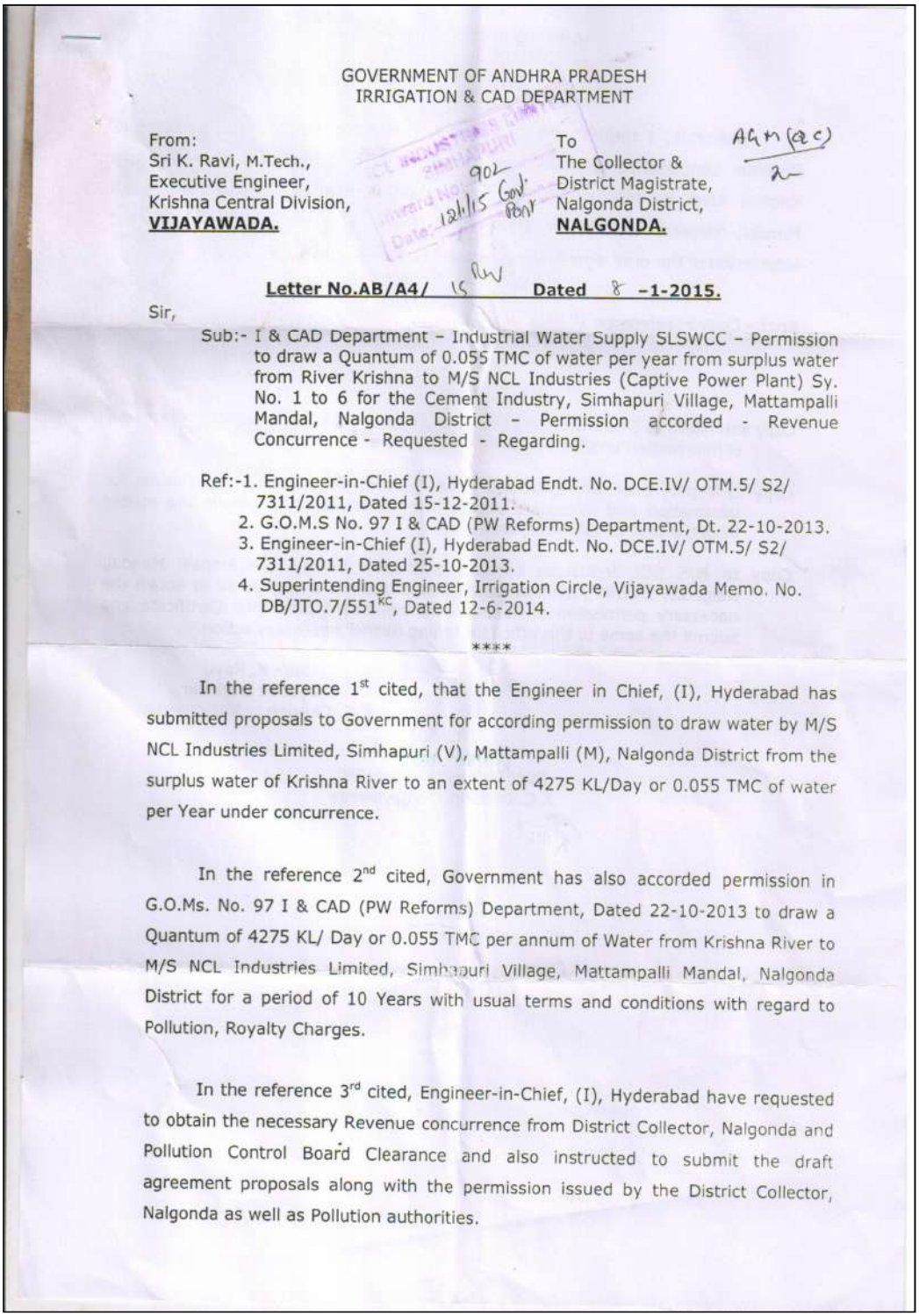
FIXED WATER SPRINKLERS ARE ARRANGED ON ROADS



FIXED WATER SPRINKLERS ARE ARRANGED ON ROADS

ANNEXURE - IV

Water Permission



GOVERNMENT OF ANDHRA PRADESH
IRRIGATION & CAD DEPARTMENT

From:
Sri K. Ravi, M.Tech.,
Executive Engineer,
Krishna Central Division,
VIJAYAWADA.

To
The Collector &
District Magistrate,
Nalgonda District,
NALGONDA.

Letter No.AB/A4/ 15 Dated 8 -1-2015.

Sir,

Sub:- I & CAD Department – Industrial Water Supply SLSWCC – Permission to draw a Quantum of 0.055 TMC of water per year from surplus water from River Krishna to M/S NCL Industries (Captive Power Plant) Sy. No. 1 to 6 for the Cement Industry, Simhapuri Village, Mattampalli Mandal, Nalgonda District – Permission accorded - Revenue Concurrence - Requested - Regarding.

Ref:-1. Engineer-in-Chief (I), Hyderabad Endt. No. DCE.IV/ OTM.5/ S2/ 7311/2011, Dated 15-12-2011.
2. G.O.M.S No. 97 I & CAD (PW Reforms) Department, Dt. 22-10-2013.
3. Engineer-in-Chief (I), Hyderabad Endt. No. DCE.IV/ OTM.5/ S2/ 7311/2011, Dated 25-10-2013.
4. Superintending Engineer, Irrigation Circle, Vijayawada Memo. No. DB/JTO.7/551[KC], Dated 12-6-2014.

****

In the reference 1st cited, that the Engineer in Chief, (I), Hyderabad has submitted proposals to Government for according permission to draw water by M/S NCL Industries Limited, Simhapuri (V), Mattampalli (M), Nalgonda District from the surplus water of Krishna River to an extent of 4275 KL/Day or 0.055 TMC of water per Year under concurrence.

In the reference 2nd cited, Government has also accorded permission in G.O.Ms. No. 97 I & CAD (PW Reforms) Department, Dated 22-10-2013 to draw a Quantum of 4275 KL/ Day or 0.055 TMC per annum of Water from Krishna River to M/S NCL Industries Limited, Simhapuri Village, Mattampalli Mandal, Nalgonda District for a period of 10 Years with usual terms and conditions with regard to Pollution, Royalty Charges.

In the reference 3rd cited, Engineer-in-Chief, (I), Hyderabad have requested to obtain the necessary Revenue concurrence from District Collector, Nalgonda and Pollution Control Board Clearance and also instructed to submit the draft agreement proposals along with the permission issued by the District Collector, Nalgonda as well as Pollution authorities.

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.

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.

//t.c.f.//
Dvnl. Accounts Officer(W)
K.C. Division :: Vijayawada

ANNEXURE –V

PERMISSION LETTER FROM FOREST DEPARTMENT

GOVERNMENT OF TELANGANA
FOREST DEPARTMENT

From:
Sri. G. Mukund Reddy, Dy.C.F.,
District Forest Officer,
Suryapet.

To:
The Managing Director,
M/s NCL Industries Ltd.,
Hyderabad.

RC.No.75/2017/S, Dt:27.11.2018

Sir,

Sub : TSFD - TSPCB - RO - NLG - Environmental Public Hearing (EPH) - M/s NCl Industries Ltd. has proposed for enhancement of Sulthanpur Thanda Lime stone Mine capacity from 0.05 MTPA to 1.0 MTPA located at Sy.No.540 (P), Pedaveedu (V), Mattampally (M), Suryapet District - Status report - Reg.

Ref: 1. NCL Industries Ltd., Ref.No.NCL/Forests Dept, Dt.01.09.2018.
2. NCL Industries Ltd., Ref.No.NCL/Forests Dept, Dt.26.11.2018.

* * *

With reference to the subject and reference cited above, the M/s NCL Industries Ltd., had requested for Status report for the proposal of enhancement of Sulthanpur Thanda Lime Stone Mine production capacity from 0.05 MTPA to 1.0 MTPA located in Sy.No.540 (P), of Pedaveedu (V), Mattampalli (M), Suryapet District in mine lease area of 42.83 Ha.

The undersigned had inspected the mining area together with Forest Range Officer, Huzurnagar 15th September, 2018. The plan submitted by M/s NCL Industries Ltd., showing the Mining Lease area (With GPS Readings) for Limestone Deposit in Sy.No.540 over an extent of Ac. 105.32 gts (42.83 Ha) in Pedaveedu Village, Mattampalli Mandal, Suryapet District (Erstwhile Nalgonda District), Duly approved by Tahasildar, Mattampally Mandal and Asst. Director of Mines & Geology, Miryalaguda has also been referred.

It is confirmed that:

1. The said location does not fall in the Forest Area, but the area is adjacent to the Reserve Forest about 170 meters and it should comply recent guidelines/ Circular from the MoEF.
2. There are no dispute issues with Forest Department but the wasta material mainly the panel cut portions is being dumped along road side even in Reserve Forest areas which has to be removed and in future waste disposal to be in designated areas as per mine plan.
3. The area is completely preexisting mining area of NCL Industries Ltd., from 1996. Hence the green cover other conditions that are in mining plan to be properly implemented.
4. No perennial nallah or streams are seen within the area.
5. There are no endangered species of flora existing in the area and it has neither ecological nor economic importance and normal species of brushes and bushes are only seen.
6. No sanctuary and national parks does not exist within the above area.

Hence, it is inform that, there are no issues for enhancement of Sulthanpur Thanda Lime Stone Mine production capacity from 0.05 MTPA to 1.0 MTPA located in Sy.No.540 (P), of Pedaveedu (V), Mattampalli (M), Suryapet District in mine lease area of 42.83 Ha.

District Forest Officer,
Suryapet.

ANNEXURE -VI

GREENBELT DETAILS

S.No	Description	Area Hectares	% Green Belt
1	**Plant Built up Area**	12	
2	**Colony**	8	
3	**Green Belt**	17.38	**36.12%**
4	**Roads**	10.74	
	Total Plant & Colony Area	48.12	

GREEN BELT IN MINES

Green belt in Plant

GREENBELT DEVELOPMENT IN COLONY

GREEN BELT DEVELOPMENT

ANNEXURE –VII

PRIMARY HEALTH CENTER

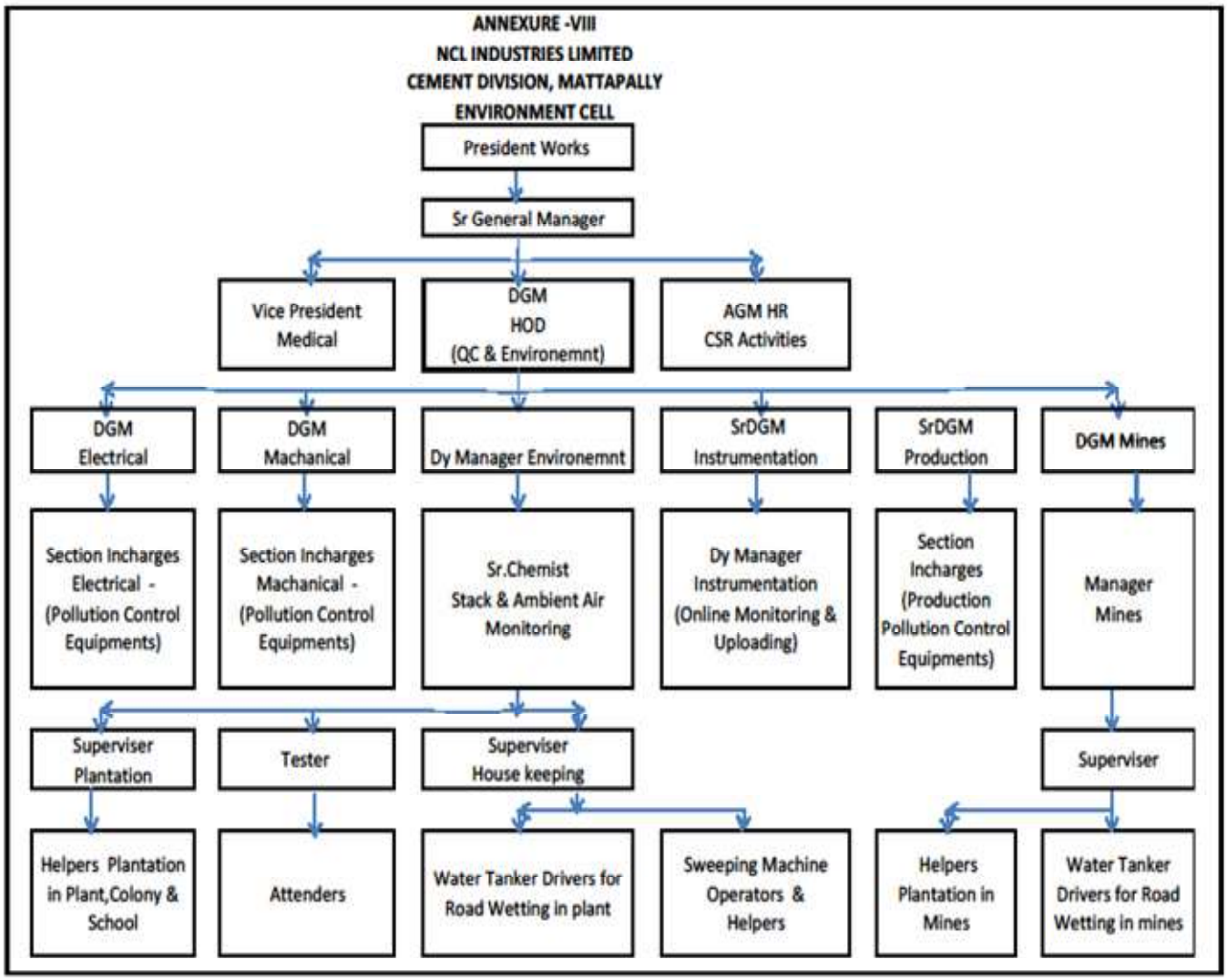
WATER TREATMENT PLANT

ANNEXURE -VIII

NCL INDUSTRIES LIMITED

CEMENT DIVISION, MATTAPALLY

ENVIRONMENT CELL



ANNEXURE –IX

THE CRITERIA POLLUTANT PARAMETERS LEVELS ARE DISPLAYED AT MAIN GATE

ANNEXURE –X

Submission letter of EC – Compliance Reports for the Period of Oct to March -2020

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,
Nungambakkam, Chennai – 600034.

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.,

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

ANNEXURE - XI

SUBMISSION LETTER OF ENVIRONMENT STATEMENT AUDIT REPORT - FORM V FOR 2019-20

NCL INDUSTRIES LIMITED

CEMENT DIVISION

AN ISO 9001 : 2015 COMPANY
CIN : L33130TG1979PLC002521
// REGISTERED POST A/D//

NCL/QC/ENVT/2020-21/278 Date: 29.06.2020

To

The Member Secretary,
TSPC Board,
Paryavaran Bhavan,
A-3, Industrial Estate,
Sanathnagar,
HYDERABAD – 500 018.

Sub: Submission of Environmental Statement Audit Report Form – V for the Year 2019 -20.

Ref: Amendment of CFO&HWA Order No: - TSPCB/RCP/NLG/HO/CFO/2018 - 2563;
Dated: 19/11/2018.

Dear Sir,

With reference to the above cited subject, we are here with submitting three copies of Environmental Statement Audit Form –V for the financial year ending March 2020.

Kindly acknowledge the receipt of the same.

This is for your kind information.

Thanking you.

Yours faithfully,

For NCL INDUSTRIES LIMITED

S. Chakradhar
President – Works

Encl: As above.

Copy to: The Environmental Engineer, TSPC Board, Regional Office,
H.No.8-15,1st Floor, Sri Laxmi Complex,Near RTA office,
Sri Vinayak Nagar, NALGONDA 508 201, TELANGANA.

O/C

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

ANNEXURE - XII
NCL INDUSTRIES LTD
CEMENT DIVISION
AMBIENT AIR QUALITY MONITORING DATA
MINES BUFFER ZONE APRIL - SEPT 2020

Date	1. Sultanpur Thanda						2.Mattapalli						3.Pedaveedu						4.Ramachandrapuram Thanda					
Time duration of sample 24hr	Flow Rate Avg m3/mi	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM
05-05-2020	1.08	58	19	9	16	<1	1.06	72	28	13	27	<1	1.16	67	24	10	23	<1	1.11	55	16	7	17	<1
20-05-2020	1.2	55	20	7	19	<1	1.15	64	23	11	22	<1	1.11	67	25	13	24	<1	1.16	58	21	9	21	<1
06-05-2020	1.12	60	21	7	17	<1	1.1	70	29	11	25	<1	1.17	65	26	9	18	<1	1.15	57	17	12	2	<1
19-06-2020	1.07	57	19	8	16	<1	1.1	62	21	10	20	<1	1.15	69	24	12	25	<1	1.08	53	18	7	22	<1
07-07-2020	1.07	69	26	9	21	<1	1.16	65	23	12	23	<1	1.1	56	18	14	25	<1	1.06	62	21	10	20	<1
21-07-2020	1.09	60	20	12	22	<1	1.13	65	23	7	24	<1	1.1	72	26	13	26	<1	1.17	58	16	9	17	<1
08-11-2020	1.09	53	16	1	19	<1	1.13	68	25	14	26	<1	1.16	64	20	8	2	<1	1.08	57	18	13	15	<1
27-08-2020	1.12	56	19	10	25	<1	1.05	70	25	8	18	<1	1.08	68	22	12	21	<1	1.14	53	17	14	23	<1
09-04-2020	1.1	50	18	8	17	<1	1.17	65	24	11	21	<1	1.03	69	26	6	24	<1	1.05	54	20	9	22	<1
21-09-2020	1.07	52	16	6	16	<1	1.12	63	23	1	20	<1	1.19	60	19	10	19	<1	1.1	51	15	8	17	<1

NCL INDUSTRIES LTD. SIMHAPURI, Suryapet Dt.

ANNEXURE - XII

NCL INDUSTRIES LTD - CEMENT DIVISION

AMBIENT AIR QUALITY MONITORING DATA - MINES CORE ZONE

APRIL to SEPTEMBER 2020

MATTAPALLI LIMESTONE MINES - CORE ZONE

Date	1. Mines Lighting Tower						2. Rest Shelter Mines						3.Factory Gate						4.Magazine security Building					
Time duration of sample 24hr	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM
05.04.2020	1.13	60	20	11	22	<1	1.17	68	25	6	15	<1	1.19	76	30	12	25	<1	1.1	64	22	8	20	<1
19/5/2020	1.1	68	26	12	20	<1	1.08	72	29	8	2	<1	1.12	82	32	10	25	<1	1.06	63	24	9	23	<1
06-04-2020	1.1	62	23	10	21	<1	1.15	71	27	8	17	<1	1.2	78	314	13	24	<1	1.07	65	25	9	19	<1
18/6/2020	1.12	66	24	12	20	<1	1.09	70	27	12	20	<1	1.14	80	30	9	23	<1	1.16	65	23	1	21	<1
07-06-2020	1.03	67	25	7	18	<1	1.12	60	19	11	22	<1	1.08	73	29	9	20	<1	1.13	71	27	8	16	<1
20/07/2020	1.08	62	22	8	21	<1	1.15	67	24	69	16	<1	1.1	76	28	7	18	<1	1.18	69	25	10	23	<1
08-10-2020	1.05	69	2	6	23	<1	1.14	75	28	12	25	<1	1.17	70	24	7	18	<1	1.11	62	19	10	21	<1
26/08/2020	1.06	65	20	1	26	<1	1.13	74	26	13	19	<1	1.07	71	23	9	16	<1	1.16	60	18	7	20	<1
09-04-2020	1.12	72	28	10	16	<1	1.06	66	25	14	27	<1	1.15	78	30	9	20	<1	1.08	57	22	13	23	<1
20/09/2020	1.15	62	21	10	22	<1	1.04	70	28	12	23	<1	1.17	66	25	14	25	<1	1.1	57	17	9	18	<1

SULTANPUR THANDA LIMESTONE MINES - CORE ZONE

Date	1. North Side of Mines						2. South Side of Mines						3.East side of Mines						4.West Side of mines					
Time duration of sample 24hr	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM
07.05.2020	1.16	55	19	10	23	< 1	1.2	66	23	12	16	< 1	1.12	71	26	13	19	< 1	1.06	60	21	8	25	< 1
22.05.2020	1.08	68	23	6	20	< 1	1.2	71	25	12	22	< 1	1.11	63	20	11	16	< 1	1.05	60	19	7	18	< 1
07.06.2020	1.19	57	17	8	21	< 1	1.17	62	21	11	18	< 1	1.15	70	27	9	23	< 1	1.06	64	22	13	26	< 1
21.06.2020	1.1	65	21	9	18	< 1	1.17	73	27	10	24	< 1	1.12	67	23	13	22	< 1	1.07	62	20	8	20	< 1
07.07.2020	1.07	63	20	12	24	< 1	1.05	66	24	7	20	< 1	1.09	57	19	10	17	< 1	1.13	69	26	11	22	< 1
23.07.2020	1.05	60	23	11	22	< 1	1.19	70	26	12	20	< 1	1.14	58	19	9	19	< 1	1.13	66	24	10	23	< 1
25.08.2020	1.11	57	18	7	26	< 1	1.15	68	23	14	18	< 1	1.17	62	21	8	15	< 1	1.1	73	28	11	21	< 1
13.08.2020	1.11	65	21	14	26	< 1	1.15	57	18	9	19	< 1	1.08	68	24	6	21	< 1	1.1	73	28	7	17	< 1
15.09.2020	1.03	59	22	12	22	< 1	1.12	61	23	13	24	< 1	1.05	54	16	8	19	< 1	1.07	64	25	10	20	< 1
23.09.2020	1.06	61	22	12	20	< 1	1.18	72	27	10	21	< 1	1.2	58	20	6	18	< 1	1.14	67	24	9	23	< 1

GUNDLAPALLI Limestone Mines - CORE ZONE

Date	1. North Side of Mines						2. South Side of Mines						3.East side of Mines						4.West Side of mines					
Time duration of sample 24hr	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM	Flow Rate Avg m3/min	PM 10 µg/m3	PM 2.5 µg/m3	So2 µg/m3	Nox µg/m3	Co PPM
06.05.2020	1.11	68	26	7	16	< 1	1.05	63	21	12	21	< 1	1.07	71	29	8	19	< 1	1.13	65	23	10	24	< 1
21.05.2020	1.07	68	24	13	27	< 1	1.1	76	30	7	18	< 1	1.13	70	26	9	21	< 1	1.06	63	22	10	23	< 1
06.06.2020	1.05	73	28	10	19	< 1	1.17	65	23	8	22	< 1	1.09	70	26	13	24	< 1	1.15	63	21	9	20	< 1
20.06.2020	1.12	67	22	10	23	< 1	1.15	72	28	12	19	< 1	1.19	76	31	7	21	< 1	1.07	60	20	11	17	< 1
08.07.2020	1.13	62	22	12	21	< 1	1.2	68	25	7	19	< 1	1.03	57	20	11	17	< 1	1.05	65	23	8	23	< 1
22.07.2020	1.08	63	21	8	20	< 1	1.2	68	25	10	23	< 1	1.14	71	27	12	18	< 1	1.05	57	18	7	15	< 1
12.08.2020	1.15	60	21	9	23	< 1	1.18	71	26	6	15	< 1	1.1	54	17	12	20	< 1	1.14	68	24	14	27	< 1
28.08.2020	1.06	75	26	7	22	< 1	1.15	59	18	11	17	< 1	1.1	70	24	13	24	< 1	1.08	63	20	9	18	< 1
06.09.2020	1.09	53	18	7	19	< 1	1.13	59	20	11	23	< 1	1.16	70	26	10	21	< 1	1.05	66	22	9	17	< 1
22.09.2020	1.09	70	25	9	21	< 1	1.13	62	20	8	19	< 1	1.16	65	21	10	20	< 1	1.11	68	23	12	23	< 1

ANNEXURE - XII
NCL INDUSTRIES LTD
CEMENT DIVISION
GROUND WATER LEVELS MONITORING REPORT
April to Sept 2020

Date of Survey	Mattapalli Village	Sultanpur Thanda	Pedaveedu Village	Ramachandrapuram Village
22/5/2020	There are no open wells.Krishna river water being is used	There are no open wells.Krishna river water being is used	Water level is 7.80mtrs. From the ground surface in the open wel	water level is 9.10mtrs from the ground surface in the open well
20/06/2020	There are no open wells.Krishna river water being is used	There are no open wells.Krishna river water being is used	Water level is 7.20mtrs. From the ground surface in the open wel	water level is 8.50mtrs from the ground surface in the open well
25/07/2020	There are no open wells.Krishna river water being is used	There are no open wells.Krishna river water being is used	Water level is 6.80mtrs. From the ground surface in the open wel	water level is 7.70mtrs from the ground surface in the open well
27/08/2020	There are no open wells.Krishna river water being is used	There are no open wells.Krishna river water being is used	Water level is 6.10mtrs. From the ground surface in the open wel	water level is 7.20mtrs from the ground surface in the open well
22/9/2020	There are no open wells.Krishna river water being is used	There are no open wells.Krishna river water being is used	Water level is 5.60mtrs. From the ground surface in the open wel	water level is 6.40mtrs from the ground surface in the open well

ANNEXURE - XII
NCL INDUSTRIES LTD
CEMENT DIVISION
NOISE LEVEL DATA
April to Sept 2020

Location	GUNDLAPALLI MINE		SULTHANPUR MINES		MATTAMPALLI MINE	
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
22/5/2020	62	57	66	61	67	62
20/06/2020	61	55	67	63	69	65
26/07/2020	64	59	69	64	71	66
27/08/2020	66	61	63	58	67	62
22/09/2020	69	64	65	60	66	61