



SAGAR CEMENTS LIMITED

Ref No: SCL/PQC/MoEF/ 67 /2016.

Date: 30.08.2016.

To,
The Dy. Director,
MOEF&CC, Regional Office (South Eastern Zone),
1st & 2nd Floor, HEPC Building,
NO. 34, Cathedral Garden Road,
NUNGAMBAKKAM, CHENNAI – 600 034.

Sir,

Ref:- MoEF vide letter No. MoEF No-J-11011/379/2006-IAII(I), Dated.02.04.2007
General Condition No. 10.

Sub:- Six months compliance report from January'16 to June 2016 reg.,

As per the above reference, we are here with enclosing six months Compliance report for the conditions stipulated in MOEF. This is for your kind information and records.

Thanking you.

Yours sincerely,
For Sagar Cements Limited,

(M.V. Ramana Murthy)
Asst., Vice President (P&QC).

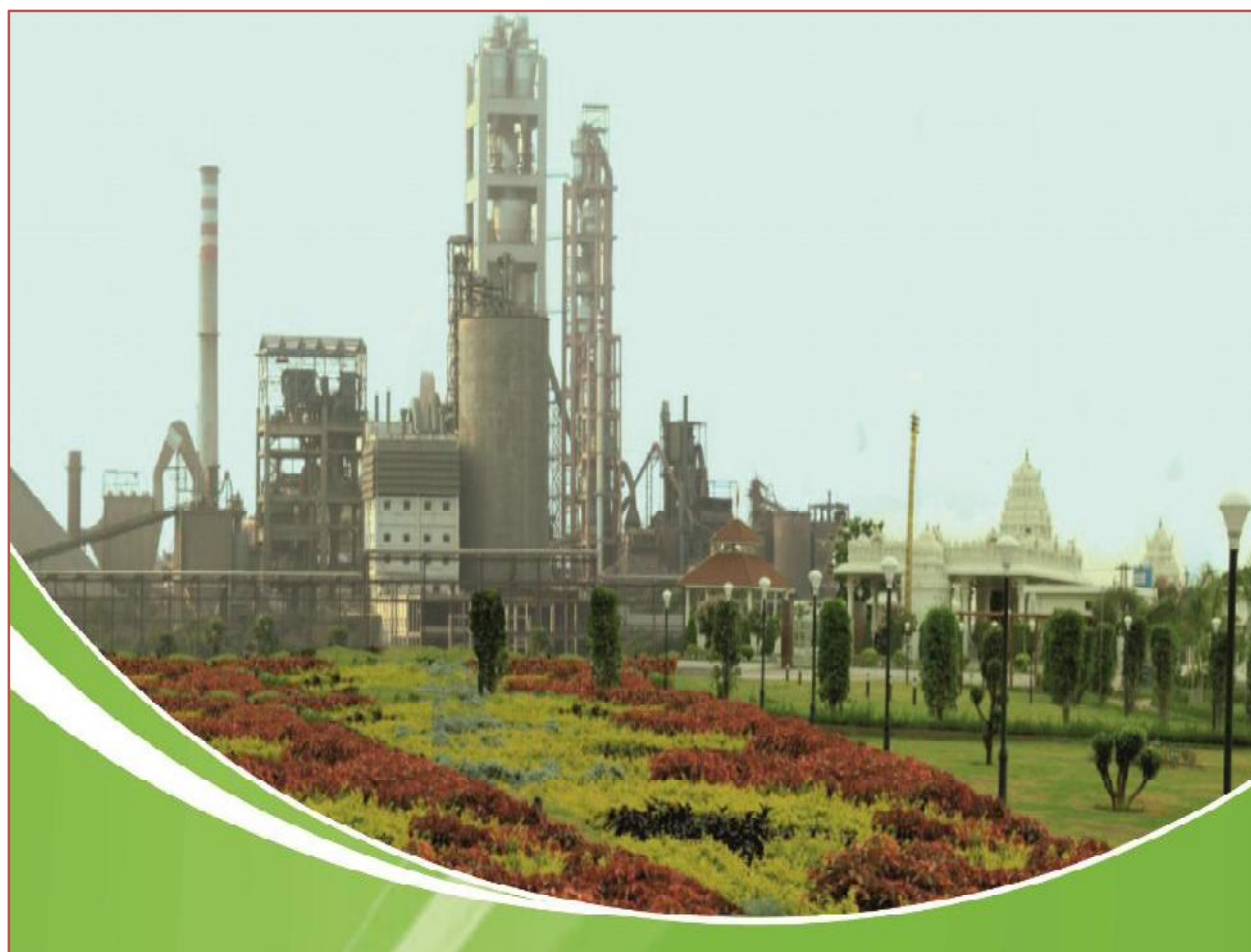
Encl: as above & soft copy in Compact Disk.



Factory : Mattampally (Village & Mandal) - 508 204, Nalgonda - District, Phone : 08683 - 247039
Registered Office : Plot No. 111, Road No.10, Jubilee Hills, Hyderabad - 500 033
Phone : +91-40-23351571, 23356572 Fax : +91-40-23356573 info@sagarcements.in www.sagarcements.in
CIN : I16947TG1981P1 C007997

**SIX MONTHLY COMPLIANCE REPORT OF
ENVIRONMENTAL CLEARANCE
(JANUARY, 2016 TO JUNE, 2016)
OF**

SAGAR CEMENTS LIMITED (PLANT), MATTAMPALLY
(An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 Certified Company)



**SUBMITTED TO
MINISTRY OF ENVIRONMENT & FORESTS &
CLIMATE CHANGE**

STATUS OF COMPLIANCE FOR THE PERIOD JANUARY, 2016 - JUNE, 2016, TO THE CONDITIONS SPECIFIED IN THE ENVIRONMENTAL CLEARANCE GRANTED BY MOEF VIDE LETTER No.J-11011/379/2006 – IAll (I)dated 02.04.2007 FOR SAGAR CEMENTS LIMITED, AT MATTAMPALLY(V&PO), NALGONDA(DIST), TELANGANA STATE.

SL. NO	Compliance Conditions	Status of Compliance
A. SPECIFIC CONDITIONS		
i	The gaseous emissions from various units shall conform to the standards prescribed by the concerned State Pollution Control Board. Bag filters and Electrostatic Precipitator of Highest efficiency shall be installed and Particulate Emissions from plant shall less than 50 mg/ Nm ³ .	High efficiency Reverse Air Bag House, Bag filters & ESP's are installed in various locations and SPM maintained as per the PCB norms. Annexure - I
ii	The height of stack with AFBC boiler shall be 67 m, with raw mill, it will be 110 m and other stacks will be of 30 – 40 m. the existing stacks in line – 1 will also increased from 73m – 103 m.	All stacks heights are maintained as per the Gide lines of MoEF. Line – 1 & Line-2 including raw mill gasses are connected to line-2 RABH. So the existing line-1 stack height is no need to rise.
iii	Bag filters will be provided for all transfer points. In all 25 bag filters to ESPs and 1 bag house will be installed. ESP will also be designed to meet 50 mg/Nm ³ for SPM stack emissions.	Electrostatic Precipitator is provided to clinker cooler. RABH is provided to handle the gases of Kiln – 1, Kiln - 2 and Raw mill. All transfer points are provided bag filters to control the particulate emission and emissions are maintained as per the PCB norms. Photos Enclosed
iv	The predicted incremental values will be rechecked and submitted to the Ministry for records within 15 days.	Following.
v	Continuous on-line monitors for particulate emissions SO ₂ and NO _x for stacks of Raw/kiln mill, clinker cooler, coal mill, cement mill etc. shall be provided and shall make necessary arrangements for submission of On-	Low NO _x burner with multichannel burner technology provided in the kiln & Pre-heater calciner is specially designed for low NO _x which control the NO _x emission. Interlocking facility has been provided. Eleven no's of

	<p>line real time emission data to CPCB website, NOx burners shall be installed to control NOx emissions. Interlocking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.</p>	<p>Continues stack monitoring stations are installed at Limestone crusher, RABH stack, Line – 1 & Line-2 Cooler ESP stacks, Coal mills 1, 2 & 3, and Cement mills 1,2,3&4 stacks, data transfer to on line to TSPCB & CPCB website. SO2 & NOx Analyzer are installed at RABH stack on 02.01.2016.</p>
vi	<p>Regular Ambient air Quality Monitoring shall be carried out. The existing monitoring stations will be reviewed in consultation with the concerned State Pollution Control Board and more stations shall be set up, if required. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and concerned SPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated regularly.</p>	<p>Ambient air quality is monitored by M/S. Lawn Enviro Associates, Hyderabad on regular basis. Data is submitted once in three months to TSPCB, Nalgonda , Joint Chief Environmental Engineer, Ramachendrapuram and Member Secretary, Hyderabad. The instrument used for ambient air quality monitoring are being calibrated from time to time.</p> <p>1). Two no's of online Ambient Air Quality Monitors has installed at Upwind & Downwind direction in consultation with the PCB and data transfer to on line to TSPCB & CPCB web site. Annexure - II</p>
vii	<p>Raw material will be stored in covered yards and clinker in a dome with all round high sidewalls to control fugitive emissions. Fugitive emissions from cement mill, packing area and coal yard shall also be controlled.</p>	<p>All the necessary measures are taken as mentioned below to control the fugitive emissions:</p> <ol style="list-style-type: none"> a) All the transfer points are provided with dedicated dust collectors. b) Water spray provided by TWO mobile water tankers to control fugitive emissions generated from roads, raw material sheds. c) A closed shed with all round high concrete side wall are provided to clinker stock pile.

		d) All raw materials are stored in covered sheds only.
viii	Dust collectors and extraction system (suction apparatus) shall be installed to control fugitive dust emissions at coal and lime stone unloading points, at all the transfer points, stockpiles to arrest free release of dust.	Provided.
ix	Materials will be transported in tippers, covered trucks, covered containers, covered rail wagons etc.	Following
	Windbreakers will be installed to restrict fugitive dust.	Following where ever necessary.
x	Water sprinkling arrangement should be made in the raw material stock yard and cement bag loading areas.	Two Mobile water tankers are available to spray water apart from the water sprinklers on internal roads, loading and unloading areas. Photos enclosed
xi	Total water requirement shall not exceed 2190 m ³ /day and water withdrawal permission shall be submitted to the Ministry.	Total water consumption is within the limits. Annexure - III
xii	Minimum COC for CPP will be 6.0.	Followed.
xiii	The wastewater from CPP and domestic activities shall be treated in Effluent Treatment Plant (ETP) and Sewage water Reclamation Plant (SWRP) respectively and recycled/reused in cement plant for makeup, in CPP for cooling, dust suppression other plant related activities and green belt development. No wastewater will be released outside the premises. Zero discharge shall be strictly adopted. During monsoon, the wastewater will be stored in the mine pit.	200 KLD STP Commissioned running well. Photos enclosed
xiv	Solid waste generated shall be 100% recycled and reutilized in the process it and no solid waste shall be disposed off outside the plant premises. The	No solid waste & Fly Ash was not generated in the industry. Waste oils are reused at Re-climber chains for lubrication & Waste grease burnt in the

	Fly Ash generated will be used in-house for the manufacture of PPC. Bottom ash shall be used in the raw mill and used for land filling / cement manufacturing. Waste oil sludge shall be reused in the plant and finally burnt in the kiln or sold to authorized recyclers/re-processors.	kiln.
xv	The company shall strictly follow all the recommendations mentioned in the charter on Corporate Responsibility for Environmental Protection (CREP).	Following.
xvi	Green belt shall be developed on additional land 8 ha.	Total Green belt developed in plant & Outside the plant up to March'2016 201.76 acers total plants are 216134. Photos enclosed
xvii	The company must harvest surface as well as rainwater from the rooftops the building proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Rain water harvesting structure is provided for roof water and surface water. Photos enclosed
GENERAL CONDITIONS		
i	The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board and the State Government.	Consent for operation (CFO) obtained from TSPCB vide letter no - TSPCB/RO - RCP/NLG/10366/CFO/HO/2014-355, Dated 09.12.2014. CFO Validity Up to:31.01.2017.
ii	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Shall be complied
lii	Adequate number of influent and effluent quality monitoring station shall be setup in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.	Followed.

iv	The project proponent shall also comply with all the environmental protection measures and safeguards recommend in the EIA/EMP report.	SCL is complying.
V	Industrial wastewater shall be properly collected and treated so as to conform to the standers prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December 1993 or as amended from time to time the treated waste water shall be utilized for plantation purpose.	No waste water is generated in the plant. Cooling water is re-circulated and domestic waste water is connected to STP.
Vi	The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation	Maintained well within the prescribed limits. Annexure -IV
Vii	Proper housekeeping and adequate occupational health programs shall be taken up. Regular Occupational health Surveillance programmed shall be carried and records shall be maintained properly for at least 30 - 40 Years. The program shall include lung function and sputum tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	SCL is conducting occupational health programs from 04.05.2016 to 09.05.2016 and maintaining relevant records. We purchased Two Sweeping machines & Vacuum cleaner for roads sweeping purpose. Photos enclosed
Viii	A separate environment management cell with full fledge laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a senior Executive.	A separate cell is constituted to manage the environmental activities in the supervision of Senior Executive.
Ix	As proposed in the EIA/EMP, Rs.40.0 crores and Rs.0.40 Crores /annum shall be earmarked to meet the capital cost and recurring cost/annum for the environmental protection measures shall be used judiciously to implement	The allocated fund will be spent only to implement environmental protection and pollution control measures.

	the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Annexure - VI
X	Regional Office of this Ministry of Bangalore / concerned State Pollution Control Board / Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	Follows without fail.
Xi	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the concerned State Pollution Control Board / committee and may also be seen at Website of the Ministry and Forests at http://enfor.nic.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bangalore.	The necessary advertisements have already been published.
Xii	The project Authorities shall inform the Regional office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	The plant has been commissioned and date of commissioning has been intimated MOEF.

ANNEXURE - I

SAGAR CEMENTS LIMITED, MATTAMPALLY , NALGONDA (Dist.)
TELANGANA STATE
STACK MONITORING REPORT
Six Monthly Report (January-2016 to June -2016)

STACK PARTICULARS	Stack gas Temperature (°C)			Stack Gas Velocity (m/sec)			Dust concentration Suspended Particulate Matter (mg/Nm ³)		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
Limestone crusher	47	55	49.82	9.00	12.96	10.66	8.85	38.87	20.11
Cola Mill-1	COAL MILL – 1 NOT IN OPERATION								
Cola Mill-2	63	71	65.82	15.24	16.39	15.90	14.72	33.88	22.49
Cola Mill-3	59	68	62.5	9.72	10.42	10.26	16.33	30.29	22.27
RABH (Kiln-1,2 & VRM)	102	210	153.92	11.56	13.62	12.81	13.38	36.23	27.93
Cooler ESP-1	285	285	285.00	15.19	15.19	15.19	24.65	24.65	24.65
Cooler ESP-2	280	309	291.18	12.28	13.69	13.06	24.38	40.40	31.08
Cement Mill-1	CEMENT MILL – 1 NOT IN OPERATION								
Cement Mill-2	73	112	98.36	12.75	15.22	13.54	10.44	25.81	18.75
Cement Mill-3	98	114	105.25	9.10	11.28	10.10	10.72	28.55	21.92
Cement Mill - 4	95	108	101.56	9.02	9.94	9.37	8.01	26.00	20.70
Packing Plant -1	68	78	72.25	12.26	15.90	14.80	16.42	28.74	23.01
Packing Plant -2	68	74	71.42	8.07	8.88	8.67	21.24	28.81	25.43
Packing Plant - 3	65	76	70.58	8.22	9.07	8.75	18.94	27.83	23.88

ANNEXURE - II

SAGAR CEMENTS LIMITED, MATTAMPALLY , NALGONDA (Dist.)
TELANGANA STATE
AMBIENT AIR QUALITY MONITORING REPORT
Six Monthly Report (January-2016 to June-2016)

LOCATION	Particulars	Particulate Matter µg/m ³		SO ₂ µg/m ³	NO _x µg/m ³
		PM -10	PM - 2.5		
Guest House	Min	46.00	18.00	6.00	13.00
	Max	68.00	27.00	10.00	21.00
	Average	57.67	22.83	8.17	16.83
Plant Main Gate	Min	34.00	11.00	6.00	14.00
	Max	74.00	32.00	13.00	24.00
	Average	62.67	25.00	10.00	19.17
Near VRM area	Min	43.00	17.00	8.00	15.00
	Max	85.00	38.00	15.00	24.00
	Average	66.67	26.50	11.17	19.17
Coal Yard (Near STP)	Min	62.00	21.00	6.00	16.00
	Max	86.00	35.00	11.00	24.00
	Average	72.33	28.00	8.50	20.00
Near LS Crusher	Min	69.00	26.00	10.00	15.00
	Max	88.00	37.00	14.00	25.00
	Average	78.00	30.33	12.50	21.00

Annexure – III

**SAGAR CEMENTS LIMITED, MATTAPALLY, NALGONDA (DIST),,
TELANGANA STATE**

Water consumption Details From January'2016 to June'2016.

Month & Year	Water Consumption (kilo litters)	
	Industrial	Domestic
January'2016	25709.00	1867.00
February'2016	31605.00	1071.00
March'2016	24155.00	909.00
April'2016	15160.00	856.00
May'2016	10125.00	925.00
June'2016	8588.00	886.00
Total	115342.00	6514.00

**SAGAR CEMENTS LIMITED, MATTAMPALLY, NALGONDA (Dist.,)
TELANGANA STATE
NOISE MONITORING REPORT
Six Monthly Report (January-2016 to June-2016)**

LOCATION	NOISE LEVEL dB(A)					
	Day Time (6 AM - 10PM)			Night Time (10 PM - 6AM)		
	Min	Max	Average	Min	Max	Average
Near LS crusher area	60.5	73.6	69.88	55.4	69.0	65.27
Near VRM area	71.0	73.8	72.73	66.4	69.4	67.72
Near Coal Mills area	70.0	73.8	71.88	62.2	69.0	66.63
Near Cement Mill 1&2 area	69.0	70.5	69.73	61.5	68.4	65.52
Near Cement Mill 3&4 area	72.8	74.0	73.40	68.2	69.1	68.55
Near Packing Plant - 1 area	59.8	68.6	64.03	53.2	65.1	59.25
Near Packing Plant - 2 area	62.8	70.2	68.03	60.1	66.4	63.30
Near Mechanical Work shop	61.6	68.2	64.57	58.4	62.4	59.82
Near Time Office (Plant Main gate)	66.2	71.2	67.88	60.4	65.4	62.60

Annexure- VI

**SAGAR CEMENTS LIMITED, MATTAPALLY, NALGONDA (DIST),,
TELANGANA STATE**

**Funds investment for Environmental protection and pollution control for the
period from January-2016 to June- 2016.**

Sr. No	Particulars	Investment Amount
01	New bag Filters installed at BC-2B discharge, Old cement mill-2 belt transfer point, Old cement Clinker hopper venting and packing plant spiral chute venting	50,00,000.00
02	Damaged bags replacement	2,57,430.00
03	Dust collectors maintenance	6,43,138.00
04	Monitoring	1,40,000.00
05	New bag Filters installed at BC-2B discharge, Old cement mill-2 belt transfer point, Old cement Clinker hopper venting and packing plant spiral chute venting	30,22,200.00
06	Green belt development	6,12,000.00
	Total	96,58,112.00

BAG FILTERS FOR LIMESTONE CRUSHER



BAG FILTER FOR LIMESTONE PRIMARY CRUSHER



BAG FILTER FOR LIMESTONE SECONDARY CRUSHER

BAG FILTER FOR COAL CRUSHER



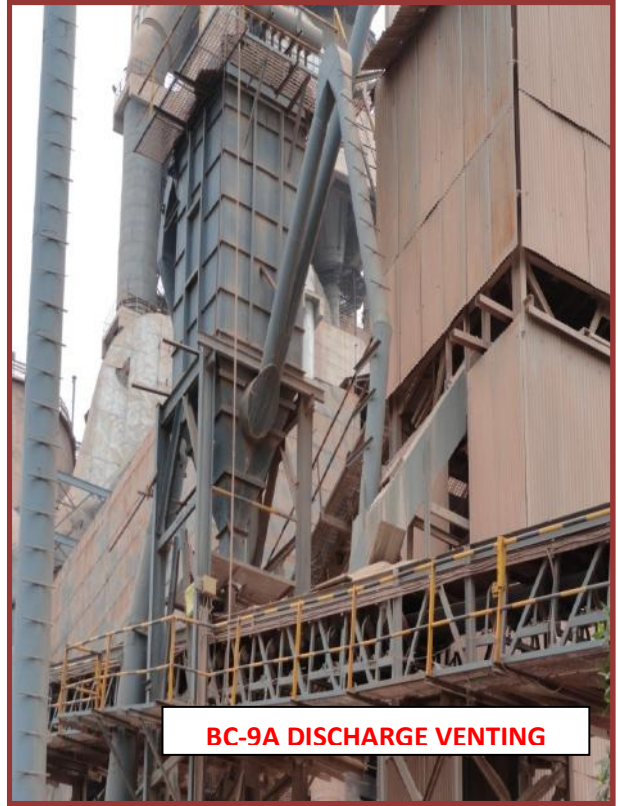


BAG FILTERS FOR RAW MILL SECTION





VRM WEIGH FEEDERS VENTING



BC-9A DISCHARGE VENTING



RAW MEAL SILO VENTING

BAG FILTER FOR COAL MILL SECTION



BAG FILTERS FOR COAL MILL – 1 & FINE COAL BINS VENTING



BAG FILTER FOR COAL MILL – 2



BAG FILTER FOR COAL MILL – 3

BAG FILTERS FOR PYRO SECTION



REVERES AIR BAG HOUSE FOR KILN-1, KILN-2 & RAW MILL



ELECTRO STATIC PRECIPITATOR FOR KILN – 1 COOLER



ELECTRO STATIC PRECIPITATOR FOR KILN – 2 COOLER



CLINKER DPC DISCHARGE POINT VENTING



SILO EXTRACTION VENTING



CLINKER BELT TRANSFER POINT VENTING

BAG FILTER FOR CEMENT MILL SECTION



BAG FILTER FOR CEMENT MILL - 1



BAG FILTER FOR CEMENT MILL – 2



OLD CEMENT MILL S CLINKER HOPPER VENTING



OLD CEMENT MILL S FEEDING BELT DISCHARGE VENTING



BAG FILTER FOR CEMENT MILL - 3



BAG FILTER FOR CEMENT MILL – 4

VRPM SECTION VENT BAG FILTERS



BAG FILTER FOR VRPM FEED BELT TRANSFER POINT





BAG FILTER FOR SURGE BIN DISCHARGE



BAG FILTER FOR BELT TAIL PULLY VENTING



BAG FILTER FOR CYCLONES VENTING



BAG FILTER FOR VRPM VENTING



BAG FILTER FOR SFM VENTING



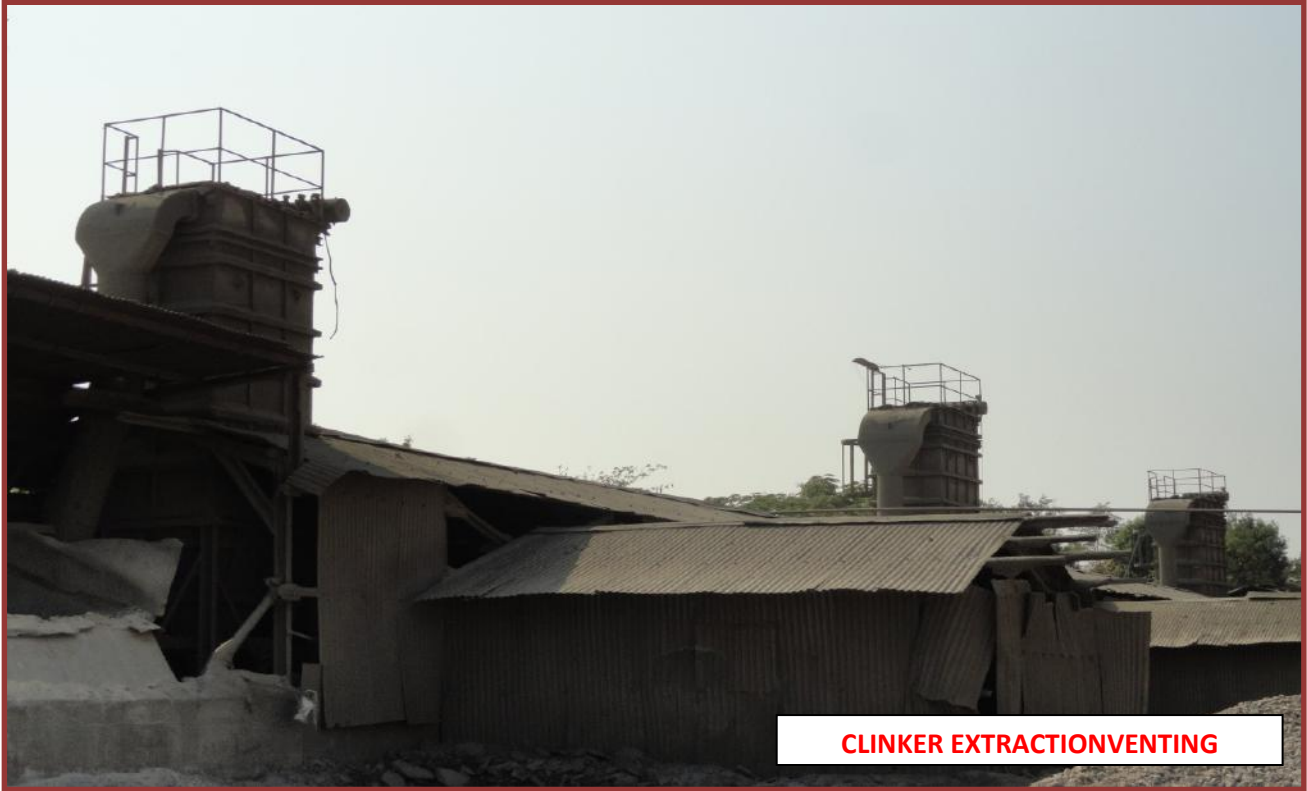
BAG FILTER FOR FINAL PRODUCT BIN VENTING



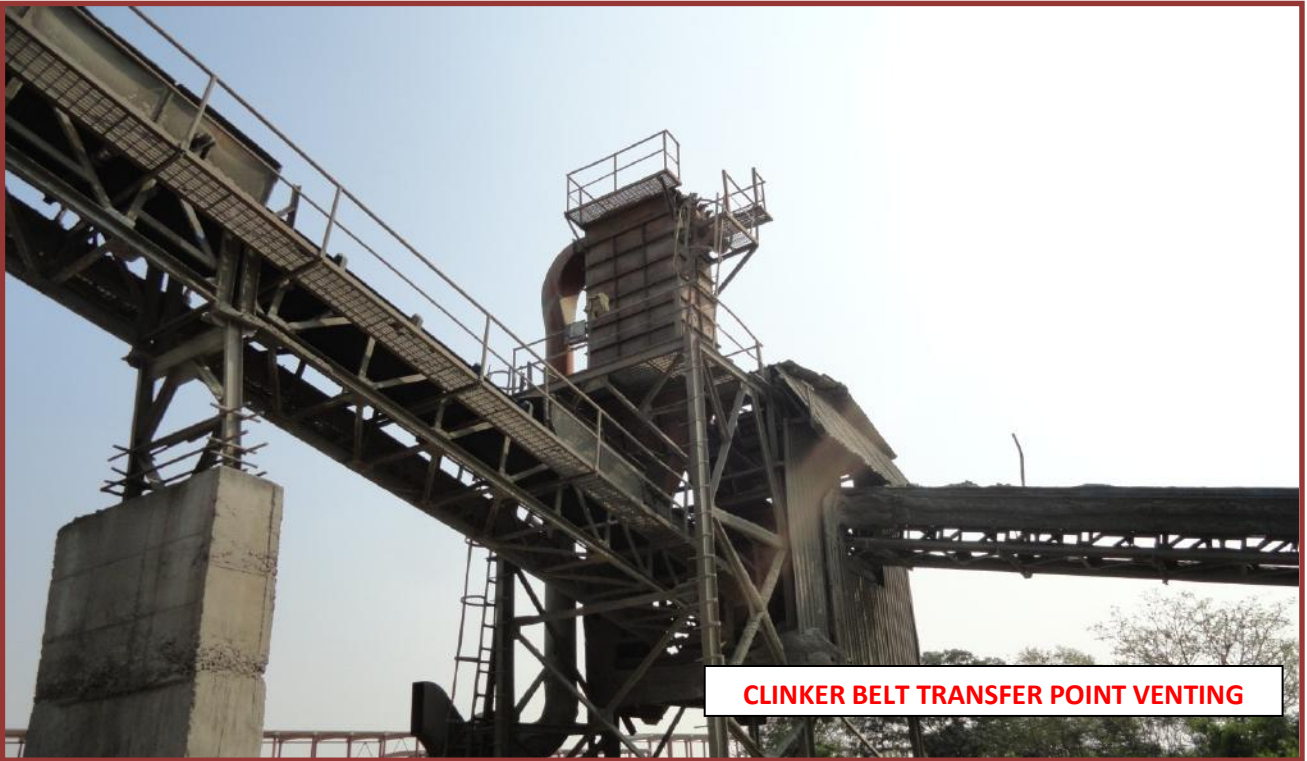
BAG FILTER FOR BUCKET ELEVATOR DISCHARGE VENTING



BAG FILTER FOR FLY ASH EXTRACTION AIR SLIDE



CLINKER EXTRACTION VENTING



CLINKER BELT TRANSFER POINT VENTING



CLINKER HOPPERS VENTING



OLD CLINKER HOPPERS VENTING



NEW CLINKER HOPPER VENTING



NEW CEMENT SILO VENTING



OLD CEMENT SILO VENTING

BAG FILTERS FOR PACKING SECTION



PACKING PLANT – 2 VENTING



PACKING PLANT – 3 VENTING



PACKING PLANT SPIRAL CHUTE VENTING

GREEN BELT





PLANTATION NEAR VRM ROAD



PLANTATION NEAR VRM HOPPERS



PLANTATION NEAR PLANT BOUNDARY



PLANTATION NEAR PLANT BOUNDARY



PLANTATION NEAR PLANT BOUNDARY



PLANTATION NEAR PLANT BOUNDARY



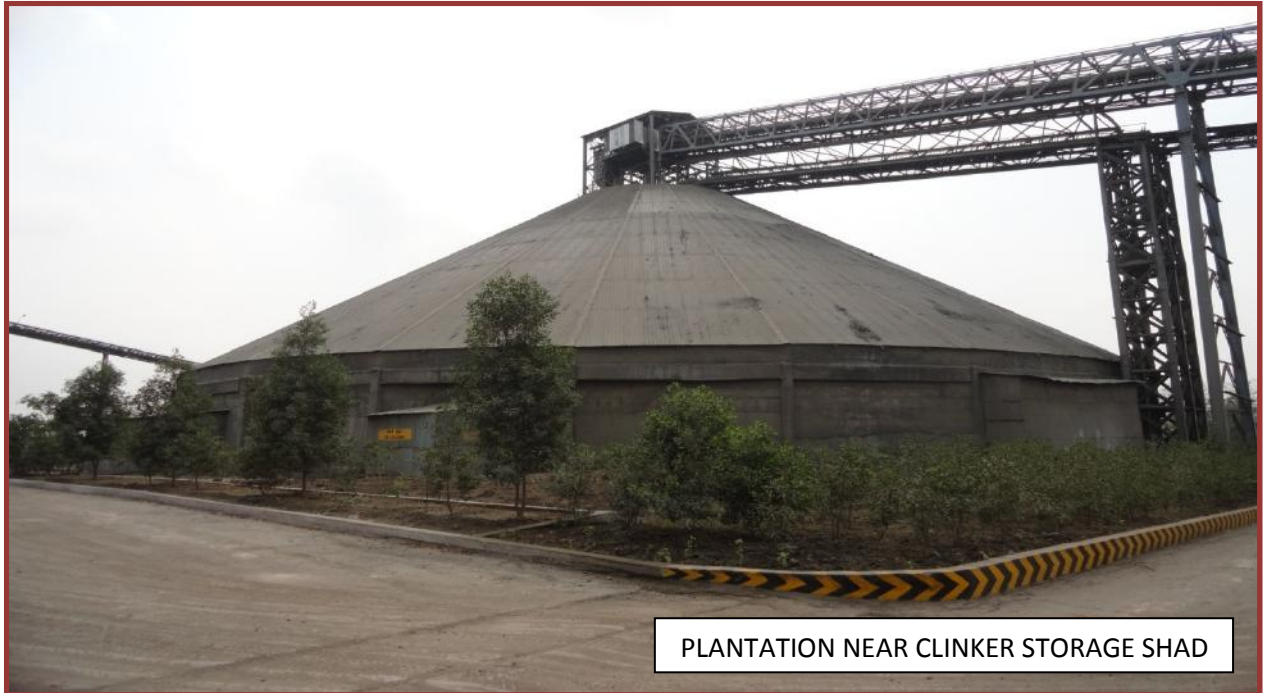
PLANTATION NEAR PLANT BOUNDARY



PLANTATION NEAR PLANT BOUNDARY







PLANTATION NEAR CLINKER STORAGE SHAD



PLANTATION & LAWN NEAR OLD CEMENT MILLS



PLANTATION & LAWN NEAR COAL CRUSHER RAMP



PLANTATION AT CLINER CSP ROAD



PLANTATION & LAWN NEAR NEW CEMENT MILL



PLANTATION NEAR NEW PACKING PLANT



PLANTATION NEAR PACKING HOUSE WEIGH BRIDGE



PLANTATION NEAR NEW PACKING PLANT



PLANTATION NEAR COMMERCIAL OFFICE

NEW PLANTATION



PLANTS PLANTED ON THE OCCASION OF WORLD ENVIRONMENTAL DAY ON 05.06.2016. AT LS CRUHER BC-2B BELT CONVEYOR





**PLANTS PLANTED ON THE OCCATION OF TELANGANAKI
HARITHAHARAM MASIVE PLANTATION PROGRAM ON
11.06.2016.AT SCL- 2 PLANT.**



**PLANTS PLANTED ON THE OCCATION OF TELANGANAKI
HARITHAHARAM MASIVE PLANTATION PROGRAM ON
11.06.2016.AT SCL- 2 PLANT.**



PLANTATION AT COAL CRUSHER RAMP AREA



PLANTATION AT COAL CRUSHER RAMP AREA



PLANTATION AT UNDER ROAD BRIDGE



PLANTATION AT RAILWAY SIDING







200 KLD Seavage Treatment Plant (STP)



Rain Water harvesting Structure for Roof Water



Rain Water harvesting Structure for Roof Water



Rain Water harvesting Structure for Roof Water



Vacuum Cleaner For Spillage Cleaning & Roadsweeping.



Mechanized Sweeping Machine For Roads Sweeping.



Mechanized No: - 2 Sweeping Machine For Roads Sweeping (New)



Water Sprinkling On Haul Roads.



Motorzed Water Tanker.



ONLINE POLLUTION MONITORING EQUIPMENTS









COAL MILL - 1 STACK ONLINE MONITOR

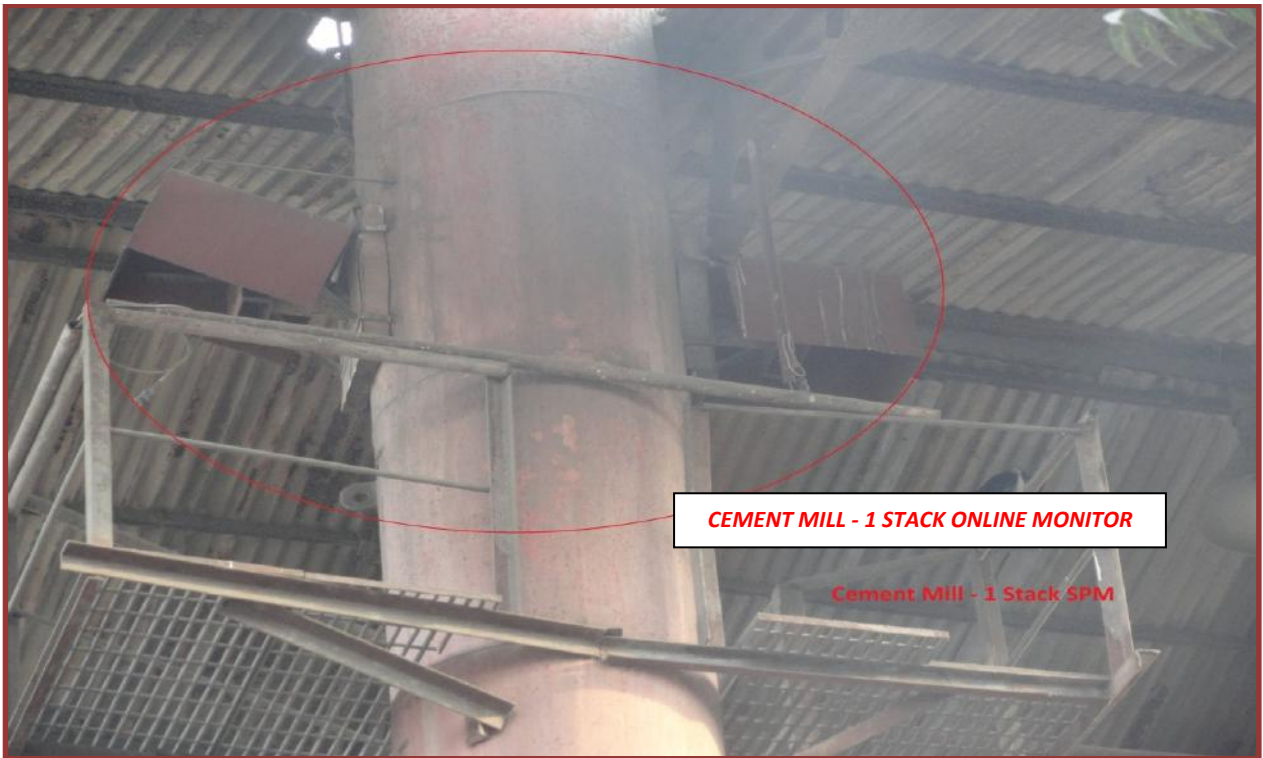


COAL MILL - 2 STACK ONLINE MONITOR

Coal Mill - 2 Stack SPM



COAL MILL – 3 STACK ONLINE MONITOR



CEMENT MILL - 1 STACK ONLINE MONITOR

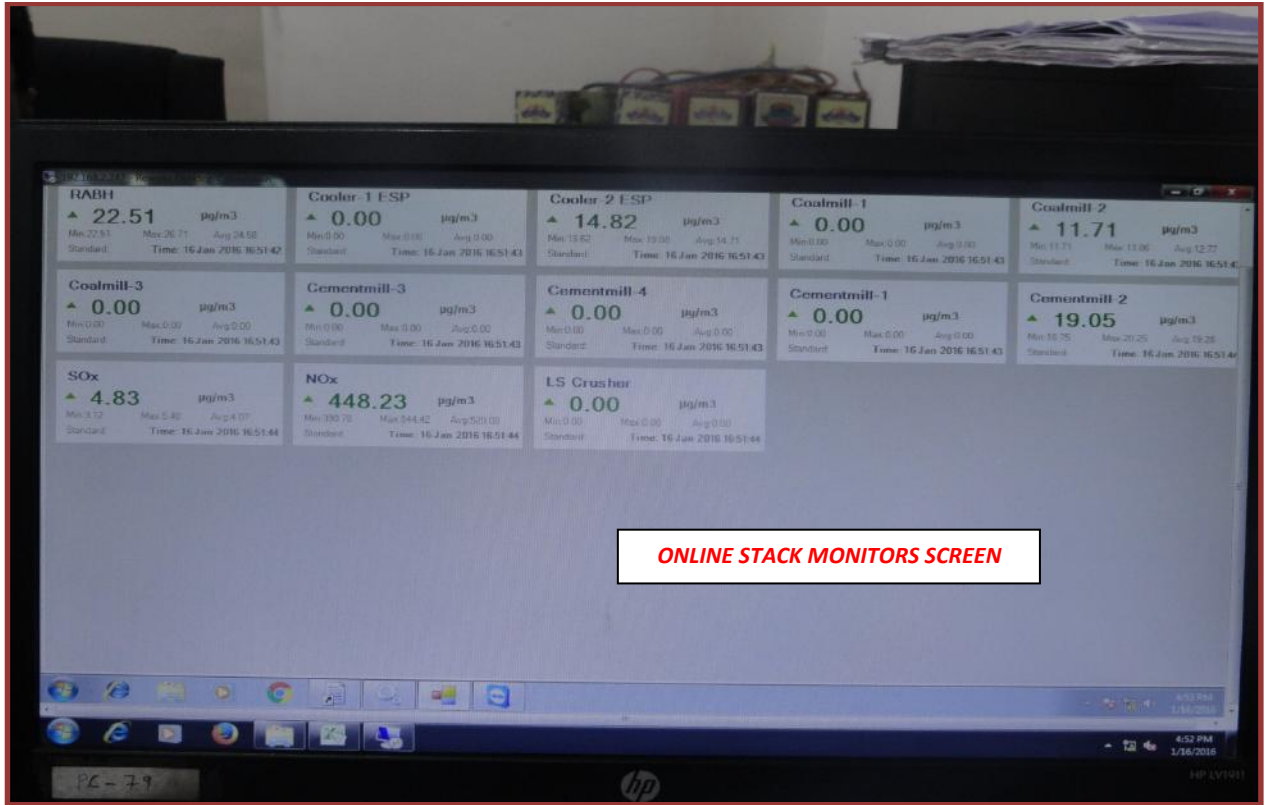
Cement Mill - 1 Stack SPM



CEMENT MILL - 2 STACK ONLINE MONITOR



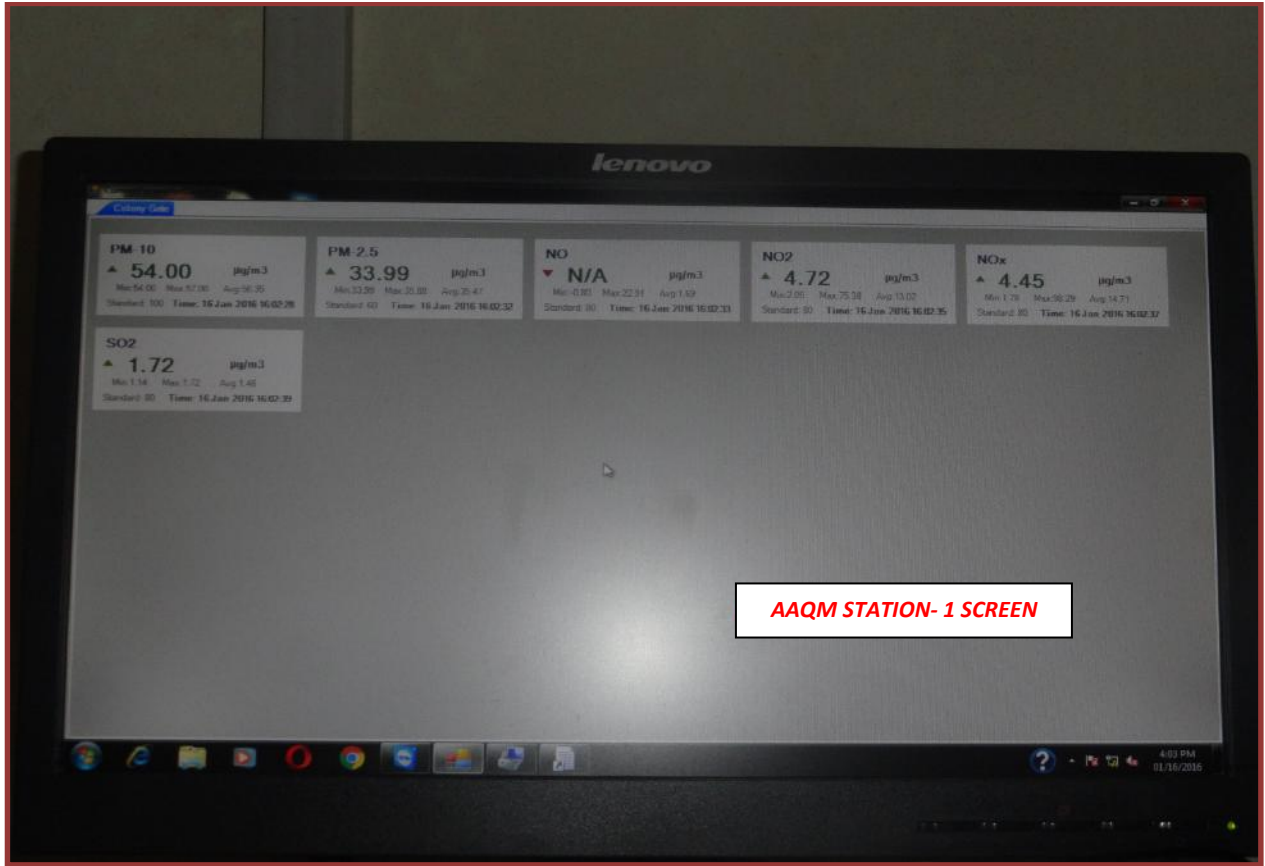
CEMENT MILL - 3 & 4 STACK ONLINE MONITORS



ONLINE STACK MONITORS SCREEN



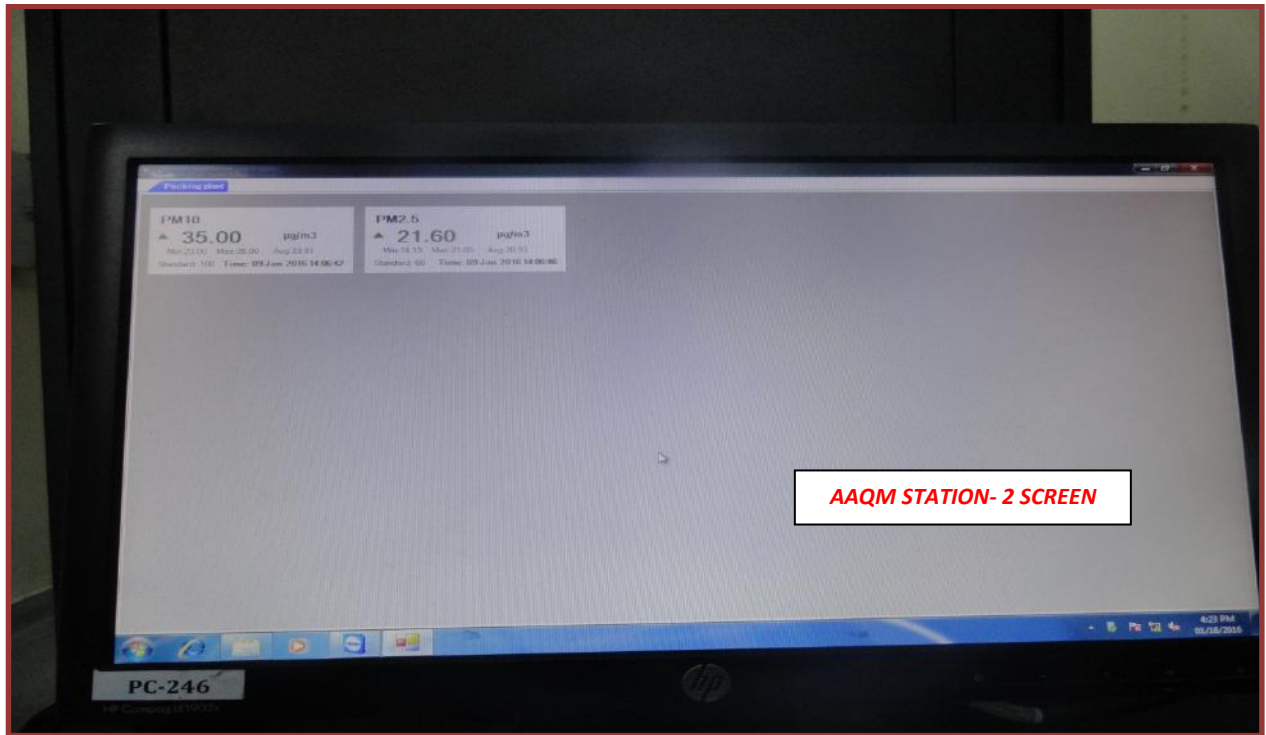
ONLINE AAQM STATION AT COLONY MAIN GATE (UP-WIND DIRECTION)



AAQM STATION- 1 SCREEN



ONLINE AAQM STATION AT COMMERCIAL BUILDING (DOWN-WIND DIRECTION)



BIO DIGESTER GAS PLANT

