

ANDHRA CEMENTS LIMITED
DURGA CEMENT WORKS

REGISTERED POST

ACL/DCW/CFO/MINES/2014-15/

Date: 01.06.2015

To
The Member Secretary,
A.P. Pollution Control Board
Paryavaran Bhavan, A-III, IE. Sanath Nagar
Hyderabad-500018

Sub: Half yearly CFO Compliance report of Durga Cement works (Mines Division), granted by A.P Pollution Control Board Vide Consent Order No: APPCB/VJA/GTR/16829/ HO/CFO 2014- Dated: 23.01.2014.

Dear Sir,

With reference to above, please find enclosed half yearly compliance report for Consent for Operation (CFO) of Durga Cement works (Mines Division), a unit of Andhra Cements Limited for the period October 2014 to March 2015 for your kind information and record please.

Thanking you.

Yours faithfully
For **DURGA CEMENT WORKS**
A Unit of Andhra Cements Limited


(Anjan) Kumar
Sr. GM (P&QC)

Encl: As above

Copy to:
The Environmental Engineer
Regional Office, A.P Pollution Control Board
102 Raghava Apartment, Brundavan garden
Guntur, Andhra Pradesh
Pin-522007



ANDHRA CEMENTS LIMITED

Regd. Office & :
Factory

Durga Cement Works, Durgapuram, Srinagar (P.O),
Dachepalli - 522 414, Guntur Dt. Andhra Pradesh
Ph : +91-8649-257428-29, Fax : +91-8649-257449

DURGA CEMENT WORKS
(MINES DIVISION)
A UNIT OF ANDHRA CEMENTS LIMITED
DURGAPURAM (V) DACHEPALLI (M)
GUNTUR -DISTRICT (AP)

**HALF YEARLY COMPLIANCE REPORT OF CFO OF DURGA CEMENT WORKS (MINES DIVISION) A
UNIT OF ANDHRA CEMENTS LIMITED FOR THE PERIOD OF OCTOBER 2014 MARCH 2015**

CONSENT ORDER NO.APPCB/VJA/GTR/16829/CFO/2014- DATE: 23.01.2014

SCHEDULE-A		
S.N	CFO STIPULATED CONDITION	COMPLIANCE CONDITION
1	The applicant shall make applications through online for renewal of Consent (under Water and Air Acts) Authorization under HWM Rules at least 120 days before the date of expiry of this order , along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorisation of the Board along with detailed compliance to the conditions stipulated in the CFO and HWA order.	Agreed
2.	Any person aggrieved by an order made by the State Board under Section 25,Section 26,Section 27 of Water Act,1974 or Section 21 of Air Act,1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules,1976 and Air Rules 1982,to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act,1974 and Section 31 of the Air (prevention and control of pollution) Act,1981.	Agreed.
3.	The industry may explore the possibility of tapping the solar energy for their energy requirements.	Possibility of solar energy is being explored
4.	All other conditions stipulated in the schedule –A of the earlier combined CFO & HWA order No: APPCB/VJA/GTR/534/HO/CF/2008, dated 18.11.2008 remains same. The industry shall ensure consistent compliance of each condition of Schedule –A	All other conditions stipulated in Consent Order dated.18-11-2008 are being complied.

SCHEDULE –B																				
1.	The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below	There are no effluents generated from the Mines. The domestic effluent (STP) discharge has constituents within prescribed tolerance limits.																		
	<table border="1"> <thead> <tr> <th>Outlet No.</th> <th>Parameter</th> <th>Limiting standards</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH</td> <td>5.5-9.00</td> </tr> <tr> <td></td> <td>Total suspended solids (at103-105^oC)</td> <td>200.0 mg/l</td> </tr> <tr> <td></td> <td>Oil &Grease</td> <td>10.0</td> </tr> <tr> <td></td> <td>Chemical Oxygen Demand(COD)</td> <td>250.0 mg/l</td> </tr> <tr> <td></td> <td>BOD</td> <td>100.0 mg/l</td> </tr> </tbody> </table>	Outlet No.	Parameter	Limiting standards	1	pH	5.5-9.00		Total suspended solids (at103-105 ^o C)	200.0 mg/l		Oil &Grease	10.0		Chemical Oxygen Demand(COD)	250.0 mg/l		BOD	100.0 mg/l	
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	BOD	100.0 mg/l																		
2.	The industry shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities mentioned below	Following Initiatives are being taken to reduce water consumption: 1. Construction of STP to maintain Zero waste water discharge. Treated water reused in dust suppression & green belt development at mines area. 2. All the drainage leading to mine pit to conserve the rain water. Water consumption shall not exceed the allowed quantity																		
	<table border="1"> <thead> <tr> <th>S.N</th> <th>Purpose</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Process & Washing (Sprinkling in Mining)</td> <td>55.0KLD</td> </tr> <tr> <td>2</td> <td>Domestic</td> <td>5.0 KLD</td> </tr> <tr> <td colspan="2">Total:</td> <td>60.0KLD</td> </tr> </tbody> </table>	S.N	Purpose	Quantity	1	Process & Washing (Sprinkling in Mining)	55.0KLD	2	Domestic	5.0 KLD	Total:		60.0KLD							
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1	Process & Washing (Sprinkling in Mining)	55.0KLD																		
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3.	Separate water meters with necessary pipeline shall be provided for assessing the quantity of water used for each of the purposes mentioned below: 1.Spraying in mine pits 2.Domestic purpose	Separate water meters provided for Mines & Domestic water consumption and records are maintained. Annexure-1																		
4.	The industry shall file the water cess returns in Form-1 as required under section (5) of water (Prevention and Control of Pollution)Cess Act,1977 on or before the 5 th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment order as and when issued by Board.	Being complied. Regular water Cess returns in Form-1 submitted to APPCB Hyderabad and APPCB Regional office, Guntur on monthly basis. Water Cess reports attached as per Annexure-2																		
5.	The industry shall comply with ambient air quality standards of PM ₁₀ (Particulate Matter Size less than10µm)-100 µg/m ³ , PM _{2.5} (Particulate Matter size less than 2.5 µm)-60 µg/m ³ , SO ₂ -80ug/m ³ , NO _x -80ug/m ³ , Outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCL-1,dated 18.11.2009 Noise Levels: Day time (6AM to 10PM)-75dB(A) Night Time(10PM to 6AM-70dB(A)	Being complied. On line Continuous Ambient Air Quality Monitoring is being done at 3 nos of Stations. Real time CAAQM data is being transmitted to APPCB Server and to the Display Board at factory gate. In addition to CAAQMS , 4 nos of manual AAQMS have also been working. Noise level is also being monitored. Parameters are within the prescribed limits. Ambient Air & Noise level report attached as per Annexure- 3																		
6.	The industry shall not increase the capacity beyond the permitted capacity mentioned in this order, Without obtaining CFE&CFO of the Board.	Agreed, We shall not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE & CFO of the Board																		
7.	The Industry shall install one AAQM Station on the	Complied With. AAQM station installed in up																		

	upwind side of the village.	wind direction of the Gamalapadu village at near CPP area.
8.	The industry shall submit Bank guarantee of Rs.11.7 Lakhs with validity of 3 years for development of green belt in additional area of 117 Acres to meet the norms. Bank Guarantee will be forfeited if the green belt was not developed within 3 years. The industry shall submit action plan with time frames for development of green belt of 117 acers	Bank guarantee of Rs.11.7 Lakhs along with Tree plantation action plan of mines submitted at Regional office AP Pollution Control Board Guntur our vide our letter no DCW/ENV/2014/2929 dated:11.03.2014. attached as per Annexure-4
9.	The industry shall earmark an amount of Rs.3.0 Lakhs per annum for 10 years towards the Enterprise Social Responsibility (ESR) activities. The industry shall earmark this amount towards the Enterprise Social Responsibility (ESR) activities and spend the amount under ESR activities through ESR/CSR cell in the office of the District Collector.	CSR/ESR activities being taken by the company. CSR report for the year of 2014-15 attached as per Annexure-5
10.	The Industry shall develop green belt and maintain it on the over burden dumps, haul roads and also along the boundary of the mining area to control air pollution in the surrounding area.	The industry has developed green belt and maintained at the both side of haul road of mines, boundaries and vacant places of mines area. There is no over burden dumps in our mines . Tree plantation progress report attached as per Annexure-6.
11.	All waste material shall be disposed properly within the Mining Lease Area.	No wastes material generated from mining activity.
12.	All mining rejects, irrespective of size and quality, shall be hauled away from the mine.	No mining rejects are generated.
13.	The natural drainage of water shall be maintained. The Dump sites shall not cross any streams. Water flow from the Mines Lease Area shall be free of suspended matter and conform to prescribed water quality standards even during the monsoon.	Natural drainages are not being obstructed in mines lease area. Water of Mines meets the quality standards.
14.	Plantation with native species shall be raised along the roads, dump sites to develop a wide greenbelt all around the ML area in consultation with local DFO/Agriculture department.	Tree plantation has been done of native species along the roads, vacant places and boundary wall of ML area. Tree Plantation progress report attached as above
15.	Dumping of overburden shall be like a retreating pyramid bench formation and shall carry physical and biological reclamation concurrently. Dumps shall be contoured and provided with relief control and stabilized. Dump tops shall be compacted, leveled and provided with proper drainage.	There is no overburden in ML area.
16.	Soil binding and nitrogen fixing plants shall be planted in the Mine Lease Area. Biological reclamation shall be done in two phases. The first phase shall be with appropriate quick growing grass and shrubs and in the second phase slower growing native shrubs and trees shall be grown.	Soil binding and nitrogen fixing tree plants have being planted in ML area. Photo graphs are attached as per Annexure: 7 Tree plantations will be done as directed.
17.	Check dams and filter beds shall be constructed to protect from stream runoffs.	Check dams have being constructed to protect stream runoff. Photographs are attached as per Annexure-8
18.	Ground water table levels shall be monitored every season. Any lowering of the ground water table in comparison to the previous season shall be	Ground water depth level is being regularly monitored in every season. Reports are attached as per Annexure-9

	reported to the Board immediately. Discarded pits shall be allowed to fill with water.	
19.	Vehicles shall be well maintained and engine idling shall be minimized. Vehicle cabs shall be made dust -proof.	Being complied. Fully equipped garage is being maintained.
20.	Drills shall be water jacketed. Local exhaust ventilation systems shall be installed at dust generation points and the dust shall be fed to a dust collection system.	Water injector and dust collection cyclone system installed in drilling machine for the control of air pollution. Photographs attached as per Annexure-10
21.	Blasting shall be sequential in such a manner as to achieve minimum vibration	Sequential blasting methods applied for minimum vibration.
22.	The industry shall maintain four ambient air quality monitoring stations in the core zone as well as in the buffer zone for monitoring RPM, SPM, NO _x , and SO ₂ . Location of the ambient air quality stations shall be decided based on metrological data, topographical features and environmentally and ecologically sensitive targets and the frequency of monitoring shall be undertaken in consultation with the APPCB.	4 Nos AAQM station & 3 Nos CAAQMS station have being installed and being maintained. Location of AAQM stations decided with the consultation of A.P. Pollution Control Board Guntur. Photo graphs are attached as per Annexure :11
23.	A separate environmental management cell with suitable qualified personnel shall be set up under the control of senior executive who will report directly to the head of the organization.	Being complied. An organization chart of Environment management cell attached as per annexure :12
24.	The industry shall comply with all other conditions stipulated in the CFE order dated 27.06.2008 including conditions Nos.4 and 5 of Schedule B pertaining to air and noise pollution control from mines.	All other conditions stipulated in CFE dated.27-06-2008 are being complied.
25.	The industry shall comply with all the Board directions issued from time to time.	Agreed
26.	The applicant shall submit Environment statement in Form V before 30 th September of every year as per Rule No.14 of E (P) Rules, 1986 & amendment thereof.	Complied with. Last Environment Statement in Form-V sent vide our letter no. ACL/DCW/ENV/MINES/2014/14022 dated 20-09-2014.
27.	The conditions are without prejudice to the rights and contentions of this Board in any Hon'ble court of law.	Agreed.

Annexure-1

Separate water meter provided for mines & domestic water consumption



Mines water meter



Domestic water meter

REGISTERED POST

DCW/P&QC/ENV/03-15/S 504

Date 17.04.2015

The Member Secretary,
AP Pollution Control Board
Paryavaran Bhavan
A-III, I.E., Sanath Nagar
HYDERABAD- 500 018

Subject: Monthly Monitoring Report for the Lime Stone Mines of Durga Cement Works at village Gamalapadu, Mandal –Dachepalli, Dist-Guntur (AP)

Ref: CFO vide order no: APPCB/VJA/GTR/16829/HO/CFO/2014, Dt.23.01.2014

Dear Sir,

Please find enclosed following reports of Durga Cement Works (Mines Division) a unit of Andhra Cements limited for the month of March 2015.

1. Monthly water consumption report of mines
2. Ambient air quality monitoring report of mines.
3. Noise level report of mines

This is for your kind information and records.

Thanking You

Yours faithfully,

For **Durga Cement Works** (Mines Division)
(A unit of Andhra Cements Limited)


Anjani Kumar
Sr.GM (P&QC)

Encl: a/a

CC: The Environmental Engineer
AP Pollution Control Board, Regional Office
102, Raghava Apartments, Brundavan Gardane,
GUNTUR – 522 007

ok

Annexure-3

DURGA CEMENT WORKS					
A Unit of Andhra Cements Limited Gamalapadu(V), Dechepalli(M),Dist- Guntur Andhra Pradesh					
AMBIENT AIR QUALITY MONITORING REPORT OF DCW PLANT					
OCTOBER 2014 TO MARCH 2015					
LOCATION -1 NEAR MINE PIT-1, (CROSS WIND)					
S.N		PM-2.5 µg/m ³	PM-10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1	MAX.	30.04	58.62	9.52	14.70
2	MIN.	17.09	39.40	4.17	6.94
3	AVG.	23.74	47.35	6.63	10.95
4	STD DEV.	2.83	4.64	1.14	1.59
5	COFF. OF VARIATION	0.12	0.10	0.17	0.15
6	98 PERCENTILE	28.62	56.46	8.46	14.40
LOCATION -2 NEAR NAGULERU RIVER PUMP HOUSE, (CROSS WIND)					
S.N		PM-2.5 µg/m ³	PM-10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1	MAX.	25.68	54.60	9.27	12.83
2	MIN.	16.49	37.64	4.00	7.19
3	AVG.	21.13	45.03	6.35	10.47
4	STD DEV.	2.23	3.74	1.15	1.43
5	COFF. OF VARIATION	0.11	0.08	0.18	0.14
6	98 PERCENTILE	25.04	52.84	8.45	12.71
LOCATION -3 NEAR CPP (TOWARDS GAMALAPADU VILLAGE), (UP WIND)					
S.N		PM-2.5 µg/m ³	PM-10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1	MAX.	30.26	61.34	8.81	15.88
2	MIN.	16.45	40.00	5.07	9.00
3	AVG.	25.85	49.98	7.09	11.92
4	STD DEV.	2.96	5.01	0.98	1.76
5	COFF. OF VARIATION	0.11	0.10	0.14	0.15
6	98 PERCENTILE	29.91	60.32	8.53	15.24
LOCATION -4 COLONY AREA (TOWARDS SRI NAGAR VILLAGE),(DOWN WIND)					
S.N		PM-2.5 µg/m ³	PM-10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1	MAX.	24.56	56.32	8.63	14.46
2	MIN.	15.26	36.23	3.37	5.89
3	AVG.	19.43	42.83	6.09	9.85
4	STD DEV.	2.52	3.69	1.11	1.77
5	COFF. OF VARIATION	0.13	0.09	0.18	0.18
6	98 PERCENTILE	24.50	49.75	8.48	14.18

DURGA CEMENT WORKS

A unit of Andhra Cements Limited
Gamalapadu (V), Dechepalli(M),Dist- Guntur
Andhra Pradesh- 522414

NOISE LEVEL REPORT OF DCW MINES

OCTOBER 2014 TO MARCH 2015

	1.Haulage road		2.Drilling point	
	Day Time dBA (6AM-10PM)	Night Time dBA (10PM-6AM)	Day Time dBA (6AM-10PM)	Night Time dBA (10PM-6AM)
Max.	68.6	51.4	74.8	46.7
Min.	46.3	41.5	67.3	42.3
Avg.	59.7	44.2	71.3	43.7
Std.Dev	4.99	1.88	2.10	1.05
Coff.of Variation	0.08	0.04	0.03	0.02
98 percentile	68.5	49.2	74.5	46.1
	3.Loading Point		4.Mines office	
Max.	71.5	53.4	64.3	45.8
Min.	64.7	42.3	43.5	41.5
Avg.	68.1	44.7	52.4	43.3
Std.Dev.	1.49	3.08	4.33	1.04
Coff.of Variation	0.02	0.07	0.08	0.02
98 percentile	70.9	52.2	60.8	45.2

Annexure- 4

DURGA CEMENT WORKS
A Unit of Andhra Cements Limited Date: 11.03.2014

DCW/ENV/2014/2929

The Environmental Engineer,
AP Pollution Control Board, Regional office,
102, Raghava Apartments, Brundavan Gardens,
Guntur, Andhra Pradesh
Pin - 522 007

Subject: Submission of Bank Guarantee no.G00IBGF140550001 dt. 24-02-2014 of Rs.11.70 lakhs (Rupees Eleven lakhs seventy thousand only) as per Consent Order along with trees plantation action plan of Durga Cement Works (Mines Division), M/s Andhra Cements Ltd, Dachepalli, Guntur(AP)-522414

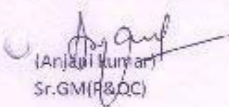
Reference: APPCB consent order no. : APPCB/VJA/GTR/16829/HO/CFO/2014 dated: 23.01.2014

Dear Sir,

This has reference to the clause no. 8 of above Consent Order issued in our favour. Bank Guarantee no. G00IBGF140550001 dt. 24-02-2014 of Rs.11.70 lakhs (Rupees Eleven lakhs seventy thousand only) issued by the Karur Vysya Bank limited, 882 Master Prithivinath Marg, Karolbag, New Delhi - 110005 is enclosed .B.G. is valid up to 28.02.2017. Tree plantation action plan for 3 years for the Mines area of 117 acres of Durge Cement Works (Mines Division) is also submitted herewith for your kind information please.
Kindly acknowledge the receipt of B.G.


Thanking you,

Yours faithfully,
For Durga Cement Works
(A unit of Andhra Cements Limited)


(Anjali Kuryan)
Sr.GM(R&QC)


Encl: a/a

Cc: The Member Secretary, For kind information please.
AP Pollution Control Board,
Paryavaran Bhavan,
A-III, I.E., Sanath Nagar,
Hyderabad- 500 018



o/c

ANDHRA CEMENTS LIMITED
Durga Cement Works, Durgapuram, Srinagar (P.O),
Dachepalli - 522414, Guntur District, Andhra Pradesh
Ph : +91 - 8649 - 257428, Fax : +91 8649-257428


Regd. Office &
Factory

Various Measures of CSR Activities being done in the surrounding villages

1. Education.
2. Filter Water supply. Maintenance and Support.
3. Dandivagu Lift Irrigation Scheme. Maintenance and Support.
4. Health & Hygiene.
5. Medical Camps.
6. Street lights illumination.
7. Cutting and cleaning bushes.
8. Financial Assistance for maintenance of Religious places.
9. Contribution for Annadanam in a Temple procession.
10. White-washing & colouring of Religious places.
11. Supporting for Athletic Champion Sports meet in the District.
12. Providing Tricycles for the physically challenged persons.
13. Providing Aggregate chips for construction of church etc.
14. Laying water pipe line in Srinagar village.
15. Providing Aggregate chips for filling the pit holes of the Road connecting Ramapuram village to State High Way.
16. Repairs and Reconstruction of School compound wall & Grampanchayat office compound wall.
17. Providing Medical check ups to all students with free medical help and energy food to Junior Class students (weekly twice) at Durga Public School.
18. Construction of Kalyana Mandapam.
19. Road repair work / Cementing of road.
20. Provided R.O.Plant at Srinagar Village under NTR SUJALA PATHAKAM and inaugurated by Shri Yarapathineni Srinivasa Rao, MLA on 02-10-2014.
21. Providing free R.O. Drinking water.
22. Providing Free Medical facilities, Ambulance and Fire services in Emergencies to the neighbouring villages.
23. Sri Sitaramala Swamy & Venugopala Swamy temple complex colouring on the occasion of Sriramanavami Festival (28-03-2015).
24. Flooring & Colouring of Srinagar Grampanchayat Office

SUMMARISED CSR ACTIVITIES & EXPENSES PLANNED FOR 2014-15 & 2015-16

S.No.	Item	Amount (Rs.in Lakhs)
1	Provided R.O.Plant at Srinagar village under NTR SUJALA PATHAKAM, inaugurated by Shri Yarapathineni Srinivasa Rao, MLA on 02-10-2014	2.70
2	Extension of water pipe line in one of wards in Srinagar Village	4.00
3	a) Drinking water supply scheme b) Pump house repairs are to be carried out as the pipeline system was introduced in 1995 and rusted	2.40 4.00
4	Dandivagu Lift Irrigation Scheme	1.60
5	Improving Health & Hygiene in surrounding villages	10.00
6	Aggregate chips for filling pit holes of the Road connecting Ramapuram village to State High way – 2.5 Kms	11.00
7	a) Repairs to the construction of School compound wall in Gamalapadu village – 350 Mtrs with main gate. b) Grampanchayat Office compound wall repairing (collapsed wall) and gate	6.00 2.50
8	Financial assistance for maintenance religious places in surrounding villages	1.00
9	Construction of Kalyana Mandapam in Ramapuram Village	10.00
10	Laboratory and Library renovation in Durga Public School	5.00
11	White-washing & colouring of Siva Temple in Ramapuram in connection with Mahasivaratri	0.10
12	Cutting & Cleaning bushes in Srinagar village	0.60
13	Road repair work / Cementing of road work in Ramapuram & Gamalapadu villages together = 500 Metres	15.00
14	Compassionate grounds subsidized / free education to poor / suffering / deserved people	3.00
15	Providing medical check ups to all students at DPS with free medical help and energy food to lower class (weekly twice)	1.50
16	Providing free R.O. water (including supply of regular water in times of power/water supply failure), emergency medical services and ambulance and fire services	4.00
17	Providing Free Medical facilities, Ambulance and Fire services in Emergencies to the neighbouring villages.	2.50
18	Sri Sitaramula Swamy & Venugopala Swamy temple complex colouring on the occasion of Sriramanavami Festival (28-03-2015).	0.70
19	Flooring & colouring of Srinagar Gram panchayat Office.	0.72
	TOTAL EXPENDITURE	Rs.88.32 Lac

DCW CSR ACTIVITIES



RO Water Plant Provided in Srinagar village



Street light & Water supply pipe line provided in Srinagar Village

DCW CSR Activities
Durga Public School of DCW



SUBJECT: MEDICAL HELTH CHECKUP AT DCW DSPENCERY



Eye checkup camp organized in DCW dispensary on date: 06.01.2015



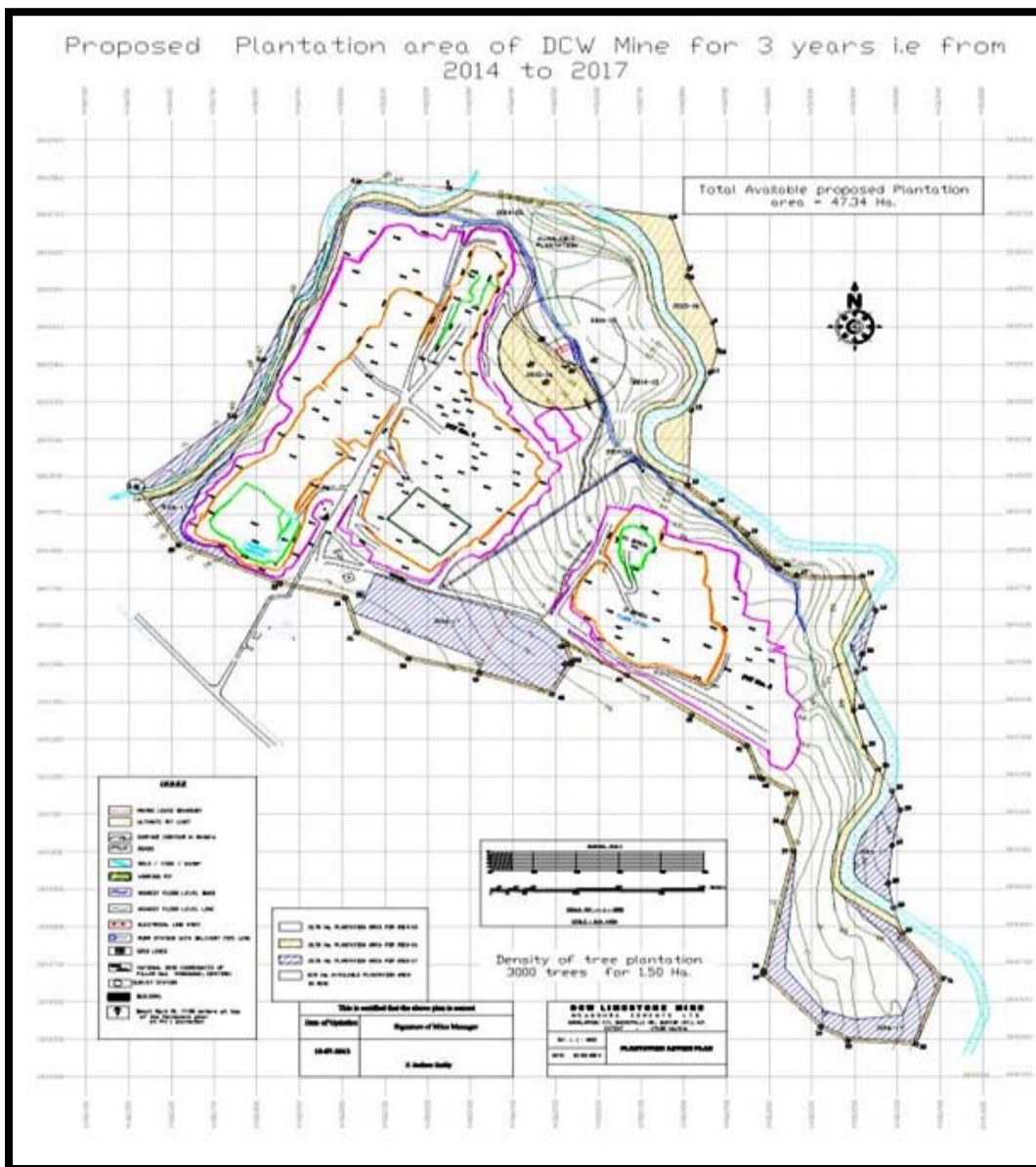
Swain flu drops vaccination at Srinagar village school from 05.02.2015-15.02.2015



Annexure-6

Status of Green belt development (Mines)

Total mine lease area:	- 170.22 Ha
Green belt up to September 2014	- 7.16 Ha.
Tree plantation from October 2014 to March 2014	- 0.75 Ha.
Existing green belt area up to March 2015	- 7.91 Ha.
Name of tree planted	- Neem, Canuga , Dubai Plant
No. of tree planted	- 550





Tree Plantation at mines area



Tree Plantation done boundary wall of mines



Mines road concreted along with tree plantation

SOIL BINDING AND NITROGEN FIXING TREES PLANTED IN MINES AREA



CHECK DAMS AT DCW MINES



Annexure-9

GROUND WATER LEVEL REPORT

POST MONSOON SEASON

13.11.2014

S.N	Location	Direction	Distance from Plant	Bore Well/Open well	Depth of Water from ground Level (Meter)
1.	Plant site (Near Security man Gate)	S	-	Bore Well	12.0
2.	Srinagar Village	SW	1.5 Km	Bore Well	18.5
3.	Ramapuram Village	NW	6.0 KM	Bore Well	22.0
4.	Gamalapadu Village	SE	5.0 KM	Bore Well	6.0

GROUND WATER LEVEL REPORT

WINTER SEASON

16.01.2015

S.N	Location	Direction	Distance from Plant	Bore Well/Open well	Depth of Water from ground Level (Meter)
1.	Plant site (Near Security man Gate)	S	-	Bore Well	12.5
2.	Srinagar Village	SW	1.5 Km	Bore Well	19.0
3.	Ramapuram Village	NW	6.0 KM	Open Well	23.0
4.	Gamalapadu Village	SE	5.0 KM	Bore Well	6.0

WATER TESTING REPORT OF DURGA CEMENT WORKS

A Unit of Andhra Cements Limited

Sample received: 21.11. 2014

Sample analyzed by: Environment Lab JBCP

S.N	Parameter	Location	Sri nagar Village	Gamalapadu Village	Colony	Club	Krishnan	DCW	IS 10500 Drinking Water standers Limit	
									Desirable Limit	Permissible limit
		Type of Water	Bore				River	Drinking Water		
1.	pH		8.0	8.25	7.82	8.56	8.05	7.37	6.5 to 8.5	6.5 to 8.5
2.	Conductivity (μ s)		1578	1723	1382	1526	457	57.5	NA	NA
3.	Turbidity(NTU)		1.2	1.5	2.0	1.9	1.32	0.72	5-10	5-10
4.	Total Hardness (mg/l)		577	562	595	561	174	74	300	600
5.	Calcium Hardness (mg/l)		514	525	523	514	157	64	75	200
6.	Magnesium Hardness (mg/l)		63	37	72	47	17	10	30	100
7.	TDS (mg/l)		1230	1347	1392	1225	269	72.5	200	2000
8.	TSS (mg/l)		-	-	-	-	15	-	100	100
9.	Alkalinity (mg/l)		162	174	201	171	71	42	200	600
10.	Chlorides(mg/l)		38	47	48	51	62	25	250	1000
11.	Fluorides (mg/l)		0.1	0.2	0.3	0.2	0.3	0.2	0.5	1.5
12.	Arsenic (mg/l)		0.001	0.002	0.003	0.002	0.002	<0.005	0.05	0.05

WATER TESTING REPORT OF DURGA CEMENT WORKS

A Unit of Andhra Cements Limited

Sample received: 11.02. 2015

Sample analyzed by: Environment Lab JBCP

S.N	Parameter	Location	Sri nagar Village	Gamalapadu Village	Colony	Club	Krishnan	DCW	IS 10500 Drinking Water standers Limit	
									Desirable Limit	Permissible limit
		Type of Water	Bore				River	Drinking Water		
1.	pH		8.12	8.43	8.46	8.24	8.25	7.46	6.5 to 8.5	6.5 to 8.5
2.	Conductivity (μ s)		1463	1578	1472	1416	429	62.4	NA	NA
3.	Turbidity(NTU)		1.3	1.4	1.8	1.2	1.6	0.78	5-10	5-10
4.	Total Hardness (mg/l)		470	510	475	364	177	62	300	600
5.	Calcium Hardness (mg/l)		416	463	415	332	162	54	75	200
6.	Magnesium Hardness (mg/l)		54	47	60	32	15	8	30	100
7.	TDS (mg/l)		1101	1201	1052	1205	0	65	200	2000
8.	TSS (mg/l)		-	-	-	-	15	-	100	100
9.	Alkalinity (mg/l)		152	162	147	163	62	37	200	600
10.	Chlorides(mg/l)		42	46	32	43	50	15	250	1000
11.	Fluorides (mg/l)		0.2	0.1	0.2	0.3	0.4	0.3	0.5	1.5
12.	Arsenic (mg/l)		0.002	0.003	0.001	0.002	0.001	<0.005	0.05	0.05

WET DRILLING PRACTICE AT DCW MINES



Dust collector cyclone

4 NOS. AAQM MONITORING STATION



Near CPP



Nagularu River Pump House



Colony area



Near Mines Pit-1

3 nos. On line Ambient Air Quality Monitoring System installed



CAAQM Station -1(Towards Srinagar Village) CAAQM Station -2 (Towards Gamalpadu village)



CAAQMS Station-3 installed at Mines area

DURGA CEMENT WORKS
(A UNIT OF ANDHRA CEMENTS LIMITED)
GAMALAPADU (V), DECHEPALLI (M)
Dist. Guntur, AP

ORGANIZATION STRUCTURE OF ENVIRONMENT MAMNAGEMENT CELL

