JUNE'14 TO NOVEMBER'14

Half yearly Compliance Report on Environmental Stipulations for Expansion of Cement Plant (from 900 TPD-2600 TPD), along with 10 MW Captive Power Plant at Thangskai, Jantia Hills District by M/s Meghalaya Cements Ltd. - Environmental Clearance Letter No. SEIAA/PROJECT-2/2007/18; Dated 25th March 2009. Sl. No. as per letter dated 25.03.2009 Action to be taken Compliance of State Environment Impact Assessment Authority SPECIFIC CONDITIONS A stack of 100 m height shall Provision of on-line monitoring The project has been (i) be provided with continuous implemented. The online on-line monitoring system in monitoring system has been respect of Thermal Power installed and the data are Plant [TPP] The data being monitored in the collected shall be analyzed system. and submitted regularly to the Meghalaya State Pollution Control Board. (ii) High efficiency Electrostatic ESPs being installed are to be Complied Precipitators [ESPs] of not certified by a third party for less than 99.98% efficiency 99.98% efficiency and emission shall be installed in the TPP level to be max. 50 mg/Nm3. to limit particulate emission to 50 mg/Nm³ (iii) Sorbent limestone shall be Such limestone will be fed Complied. We are using fed (12% of coal by weight) along with coal as per the limestone for above purpose along with coal in the boiler process of TPP operation. as and when required for the of the TPP to reduce process formation of SOx and thus help neutralize the impact of sulphur in coal. (iv) Space provision shall be At the project stage Flue Gas Complied specific location made for Flue Gas De-De-sulphurisation provision to identified & displayed. sulphurisation [FGD] unit of be made requisite efficiency for removal of SO2 when required at a later stage.



(v)	Dust extraction and suppression system along with water sprinklers shall be provided for controlling fugitive dust during transportation, in coal storage area and other vulnerable area of the TPP.	Mist type water sprinklers shall be provided.	Complied. Provisions made for water spray
(vi)	Water requirement for the Thermal Power Plant shall be met from the existing water source. No ground water shall be extracted for the power plant at any stage.	O.K.	No ground water is applicable in our case.
(vii)	Closed Cycle Cooling system with induced draft cooling towers shall be provided in the Thermal Power Plant.	To confirm in the project proposal.	Complied and working.
(viii)	Fire protection system shall be made in coal stock yard and other vulnerable areas of the TPP. Fire protection equipment and machinery should be tested periodically and shall always be kept in operational mode. Mock drills shall be conducted regularly.	Suitable water hydrant systems for fire protection shall be provided. Mock drills shall be conducted regularly.	Complied and regular safety training is being provided. We have arranged the fire fighting program this year on dated 6th May'14 conducted by Meghalaya Fire Services, Safety Demonstration dated 28th August'2014 by KARAM and Safety Mock Drill (Internal) on 15th October'14.
(ix)	The treated effluents shall be re-circulated and reused within the plant area. There shall be no waste water discharge outside the plant boundary.	Arrangements to be made at the project stage.	Complied. We have RO plant supplied by ION EXCHANGE LTD. For recycling the water to boiler. Also a ground sump is made for recycle / Treatment.





	Rain water harvesting shall	Rain water harvesting scheme	We have already a rain
	be practiced. A detailed	preparation in consultation with	water harvesting pit and we
(x)	scheme for rain water	Central Ground Water	are planning to develop the
	harvesting to recharge the	Authority/State Ground Water	same with consultation
	ground water aquifer shall	Board.	with the State Public
	be prepared in consultation		Health Dept/State Ground
	with Central Ground Water		water Board, Presently we
	Authority/State Ground		·
	Water Board within six		are using this water
	months of receipt of		harvesting pit for our plant
	Environmental Clearance.		as well as for domestic
			purposes. We have written
			a letter to the Soil & Water
			Conservation department
			seeking their technical
			guidance on the matter on
			dated 8th February, 2013
			but no response is received
			from their part. We once
			again asked their guidance
			on 29th May, 2014 on the
			same matter but no
			communication received
			till date. (Copy Attached as
			Annexure I)
			Timexure L)
(xi)	Permission for drawal of	Permission for drawal of water.	Permission for drawing of
	water of the required		water has been obtained from
	quantity from the streams in		Executive Engineer
	favour of the Cement -		(Irrigation), Jaintia Hills Dist
	Thermal Power Plant		vide letter no.AID (J)
	complex shall be secured		223/2007-2008, Dated Jowai
	from the competent		24/03/08.
	Authority within 6 (six)		
	months of receipt of		
	Environmental Clearance.		
(xii)	Leg of Noise level in the	Provision in the equipments for	Noise levels are under contro
()	Thermal Power Plant	reducing noise pollution to be	Schedule maintenance is
	premises shall be limited to	made and in operation	being carried out as per the
	75 dBA and regular	protective equipment shall be	Manufacturers' manuals and
	maintenance of equipment	used.	using necessary PPE's.
	should be undertaken. For		
	personnel working in high		(Half yearly report is
	noise areas, personal		enclosed)
	protection devices like	AL CEMEN	
	earplugs /ear muffs, etc.	3 am /00/	
		and and all	
	should be provided. Workers	Z (THANGSKAI) =	

	engaged in noisy areas such		
	as turbine area, air compressors, etc. shall be		
	periodically examined to		
	and for treatment for any		
	hearing loss apart from		
	exercising option of shifting to non noisy/less noisy areas		
	when necessary.		
(xiii)	Acoustic hoods shall be	While finalizing the machinery	Complied.
	provided in respect of all equipment that have potential	acoustic hoods shall also be planned.	
	to contribute towards noise	F	
	pollution and additionally		
	technical improvement measure detailed in para 4.3.2		
	of the EIA/EMP report of the		
	project proponent shall be		
	adopted in the TPP towards noise attenuation.		
(xiv)	Dry ash collection system	Dry ash collection and	Complied.
	shall be provided in the Thermal Power Plant, 100%	transportation system to be given in the project.	
	ash utilization shall be	given in the project.	
	ensured from the very first		
	day of commissioning of the Thermal Power Plant.		
(xv)	The stack emission from	The regular monitoring to be	Complied.
	various sources shall not exceed 50 mg/Nm3	done by Environment Department.	(Six month's report is
			enclosed)
(xvi)	The project proponent shall	The necessary certification of	Complied.
	get the optimum functioning of the environmental	Poliution Equipment to be done.	
	protection equipment		
	certified by a technical institution of repute.		
	Bag House/Filters shall be	Fugitive emission while loading	
1247404	provided to control the	and unloading of raw materials	
(xvii)	fugitive emission during	etc.	Complied.
	loading and unloading of raw materials/intermediate	AR CEMENA	
	may rais invilioning	Z (THANGSKAI)	
1		Cal lines	



	and finished products.		
(xviii)	The project proponent shall store all the raw materials except limestone in covered sheds to control fugitive emission. The coal storage facility should have water sprinkling facility in order to arrest fire hazard, if any.	Suitable sheds if necessary further sheds are to be constructed at the project stage itself.	Complied.
(xix)	The ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Meghalaya State Pollution Control Board (MSPCB) and additional stations shall be installed, in the downwind direction as well as where maximum Ground level concentrations are anticipated.	The ambient air quality monitoring has to be done and if necessary additional monitoring stations to be purchased.	Complied. (Six month's report is enclosed)
(xx)	Quarterly reports on emission levels, surface and ground water quality shall be submitted to Meghalaya State Pollution Control Board, Chromium (VI) level in nearby surface water bodies flowing in the eastern site of the Plant, and ground water shall be monitored and reported to the MSPCB. Water in the Common Effluent Pit of the TPP shall be monitored monthly for Chromium (VI) toxicity and ensured that its level dose not rise beyond 0.905 mg/t.	Emission levels, surface and water quality shall be submitted to MSPCB Quarterly reports on Testing for Chromium (VI) level in nearby surface water bodies monitoring Monthly monitoring of Chromium (VI) in effluent pit. Provision of effluent treatment plant.	Complied,
1		A LHVACZKYI	-

(xxi)	Total water requirement shall not exceed 2000 cum/day [inclusive of the water requirement of the TPP]. The project proponent shall install sewage treatment plant of minimum 120 m³ /day capacity employing suitable and appropriate technology to treat domestic sewage and treated sewage shall be utilized for green belt development. No waste water shall be discharged outside the premises and zero discharge shall be ensured. No surface runoff from the factory premises shall either reach/contaminate Um-lunar River or any other stream flowing near the industrial	Total water requirement shall not exceed 2000 cum/day including TPP and zero discharge shall be ensured.	We are regularly intimating the water consumption reports to the Board. Half yearly report is enclosed as (Annexure 工)
(xxii)	The project proponent shall make all out effort to use high calorific value hazardous waste in the kiln towards which necessary provision shall be made.	Utilization of high calorific value hazardous waste – refer MePCB letter dated 14.04.2009 on the subject.	Procurement of materials for use of high calorific value hazardous waste is not available around the plant within 50 kms. radius.
(xxiii)	The project proponent shall transport raw materials and industrial products through covered means.	Transportation of raw materials by covered means.	Complied.





(xxiv)	Thirty three percent of the	Development of green belt upto	Green belt development
	core project area i.e. 20.143	33% of the project area i.e.	has been started since 2007
	Ha of land shall be	20.143 Ha of land shall be	and the work is going on as
	developed as green belt by	developed as green belt.	per the guide lines. We
	the project proponent as per		
	the guidelines of Central		have 12.75 Ha green areas
	Pollution Control Board to		inside the plant which we
	mitigate the effect of		are maintaining from very
	fugitive emission, incurring		beginning. While, we have
	the expenditure as stated by		planted 9000 saplings in
	the project proponent. The		this year. Now, we have
	program ought to be		covered about 15.65 Ha i.e.
	completed within 5 years		about 77 % of the target.
	from the date of issue of		acoust 77 70 of the target.
	prior Environmental		
	Clearance. Suitable species		
	in respect of the same for the		
	stated area shall be approved		
	by the project proponent		
	from the DFO (Territorial)		
	of Jaintia Hills District.		
(xxv)	The project proponent shall	Provision of Health Care	The Health Care Centre is
	provide a Health Care	Centre.	functioning under qualified
	Center with all emergency		doctor, nurse and staffs. We
	medicines and ambulance		are also developing other
	along with regularly serving		infrastructures.
	doctors complete with		
	emergency unit that would		
	function round the clock.		
	Occupational health		
	surveillance of the workers		
	shall be carried out on a		
	regular basis and records		
	shall be maintained in		
	compliance of provisions		
	contained on Chapter III and		
	V of the Factories Act, 1948.		
(xxvi)	The salaries of the Cleaners	The salaries of Cleaners shall be	Annual review is completed
	shall be raised by 30% from	raised.	increments given to
	the present Rs.2500/- p.m. as		employees and this has
	assured by the project		reflected in salaries.
	proponent at p.0.15 of the		
	EIA/EMP report in response		
	to concern raised during the	CEME	
	Public Hearing.	A NA	
		[3/ am] 3	
		(THANGSON)	



(xxvii)	Measures shall be taken to prevent impact of particulate emission/fugitive emission, if any, from the proposed plant on the surrounding private forest areas depicted in their land use study.	To conduct studies for preventing impact of emission on the surrounding private forest areas.	Implemented.
(xxviii)	The project proponent shall take all such measures as are necessary in the matter of utilization of limestone towards ensuring that no unscientific extraction of limestone is encouraged in the process.	This is regarding purchase of lime stone.	In practice.
(xxix)	Meghalaya has been recognized as a cradle for several endemic species and an important constituent of the biodiversity hotspots spread over North East India. Therefore, as a measure of protection of rich biodiversity of the region, the project proponent shall cover an area of not less than 2 ha where would be located green house, mist chamber etc. (within the green belt area already stipulated above), locate conservation plots in respect of at least two of the following species of endangered and endemic plants reported to have been occurring within the region: i) Pteracanthus griffithianus, Acanthaceae ii) Nepenthes Khasiana, Nepenthaceae iii) Argostemma khasianum, Rubiaceae iv) Fimbristylish nigrobrunnea, Cyperaceae v) Trivalvaria kanjilali,	Protection of biodiversity of the region and provision of green house etc. a scheme with the help of Botanical Survey of India to be made and activity to be shown within one year.	We have submitted a letter to DFO (T), Jowai for providing us the requisite species for the purpose and also request him to guide us about the matter. A copy of the same is attached as (Annexure III) We have separated the land for developing the nursery for such endemic species but due to unavailability of plants we were unable to start this project during this rainy season.

.H

Annonaceae
vi) Begonia rubrovenia,
Begoniaceae
vii) Ceologyne ovalis,
Orchidceae

A scheme /conceptual plan of raising such threatened species shall be prepared in consultation with a reputed institution such as Botanical Survey of India complete with cost and activity schedule within one year from date of issue of prior Environmental Clearance.

Research and Development project for conservation of threatened category of species with the help of Research or Academic Institution of Meghalaya to be done.

We have already written to award the project to the Head of the Dept. Environmental Sciences. NEHU, Shillong on dated 11th February, 2013 but no positive response received regarding the matter. Again we have requested to NEHU on 29.05.14 for the same project and now we are in touch with Dr. O. P. Singh (Professor & Head, Environmental Studies. NEHU, Shillong). A copy of correspondence is attached as (Annexure ...).

The soil of the land which is inside our plant boundary is not suitable for such type of plantation because of its high iron content i.e. approx 5 % and low p^H. This is an unfavorable condition to grow such type of species.

(xxx)

The project proponent shall sponsor research and development for conservation of threatened category of species occurring locally such Hedychium dekianum, [Zingiberaceae], Cymbidium eburneum (Orchidceae), or Dendrobium denonianum (Orchidceae) which would be carried out by an appropriate research or academic institution located in Meghalaya within a year of issue of prior Environmental Clearance. The research project shall be instituted at an expenditure of a minimum of Rs.5 lakh per year spread over at least 3 years.



(mar.!)	A Conservation Plan for	Conservation of wild fauna –	Action has been taken and we
(xxxi)	conservation of wild fauna		
	in consultation with a	the plan to be made with the help of Wildlife Institute of	are corresponding with Wildlife Institute of India,
		-	Dehradun for the same.
	reputed institution such as	India, Dehradun and submit.	
	Wildlife Institute of India,		However
	Dehradun shall be prepared		It is stated that We have no
	and implemented. Such		endangered wildlife animals
	conservation plan drawn in		in and around of the plant
	respect of wild life shall be		area as per the departmental
	completed within a		Studies.
	maximum of 1 year from the		Studies,
	date of issue of prior		
	Environmental Clearance		
	and implemented thereafter		
	by the project proponent.		
(xxxii)	A sum of Rs.2109.52 lakh	Capital expenditure and revenue	Complied
,	shall be spent towards	expenditure of the project and	PROPERTY OF THE PROPERTY OF TH
	capital expenditure as stated	environment.	Expenditure details are
	by the project proponent		enclosed (Annexure V).
	towards environment		N 95 20
	protection and a further sum		
	of Rs.501.60 lakh as		
	recurring cost annually shall		
	be spent by the project		
	proponent towards		
	environmental protection.		
	chynonmental protection.		
(xxxiii)	A sum of Rs.50 lakh shall be	Socio-Economic development.	Implemented,
	utilized annually by the		F 45 1 4 1
	project proponent till the	An eco-development plan to be	Expenditure details are
	project subsists towards	prepared and submitted.	enclosed (Annexure VI).
	socio-economic/eco-		
	development activities in the		
	area part of which shall be		
	spent towards distribution of		
	free medicines, malaria		
	eradication program etc. in		
	the nearby villages. A		
	portion of the sum (5%)		
	shall be set apart annually		
	towards creation of		
	employees' welfare fund.		
	Details of expenditure		
	incurred under this Para		
	shall form part of the		
	compliance report to be		
	submitted to the	CEM	
	SEIAA/SEAC. Further, a	AT SA	
		KI STATE OF	1
		E (THANGUKAI)	
1		[10]	

comprehensive long term	
eco-development plan shall	
be prepared by the project	
proponent within six months	
of receipt of prior	
Environment Clearance.	

A. GENERAL CONDITIONS

In respect of the Cement Plant -- Thermal Power Plant project the following general conditions shall be adhered to by the project proponent:

(i)	The project proponent shall strictly adhere to the stipulations of the MSPCB/State Government or any other statutory body as framed/modified from time to time.	Following the stipulation of MSPCB.	Complied.
(ii)	At no point of time, either the clinker production or cement production of either PPC or OPC type shall exceed the limit of 2600 tons per day.	Limits of production capacity.	Complied.
(iii)	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment & Forests or their nominated authority as the case may be. In case of deviation or alteration in the project proposal from those submitted to the Committee for clearance, a fresh reference shall be made to the SEAC through SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No further expansion or modification without clearance.	Complied.

(iv)	The gaseous emissions	Interlocking system of machines	Complied.
(11)	(SO2, NOx) and particulate	to control SO2, NOx levels in	
	matter levels from various	case of failure.	
	process units shall conform	case of fairare.	
	to the standards prescribed		
	by the concerned authorities		
	from to time. At no point of		
	time, the emissions shall		
	exceed the prescribed limits.		
	Interlocking system of		
	equipment shall be chosen		
	such that in the event of		
	failure of any pollution		
	control system adopted by		
	the unit, the unit shall be		
Ì	immediately put out of		
	operation and shall not be		
	restarted until the desired		
	efficiency has been		
	achieved.		
(v)	The project authorities	Adhering to the provision in the	Complied.
	should adhere to the	fly ash notification.	
	provisions stipulated in the		
	fly ash notification of		
	September, 1999 as		
	amended in August, 2003		
	with regard to fly ash		
	utilization.		
(vi)	The industry shall undertake	Waste minimization measures.	It is an ongoing process and
(41)	the following waste	waste minimization measures.	implemented.
	minimization measures:		implemented.
	minimization measures:		
	Reuse of by-products		
	from the process as		
	raw materials or as		
	raw material		
	substitutes in other		
	process.		
	Use of closed		
	pneumatic system		
	for transport of fine	AL CEMEN	
	material.	3 aus 10	
	All venting systems	STURNGSKAI]	
	shall be connected	6.	
	with dust or	100	
	particulate arresting		
	partionate arresting		

(vii)	equipments. • Dust/particulate matter collected in pollution control equipments shall be reused. Fugitive emissions in the	Monitoring fugitive emissions.	
(vii)	work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central pollution Control Board.	resolution and a second	Complied.
(viii)	Dust/particulate matter collected in pollution control equipments shall be reused. Spares would be maintained in respect of all pollution control equipment. Maintenance and optimum functioning of the pollution control equipment shall be ensured by the project proponent.	Use of dust collected in pollution control equipments.	Complied.
(ix)	The project proponent shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the MSPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	Authorization for Hazardous materials.	Authorization letter No. MPCB/TB-(HSM)/ATH-21- 2007/ 2010-2011; dated 15 th December 2010 obtained from MSPCB. Valid up to Dec 2015.
(x)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Environmental Quality	Formation of Environmental Management Cell with laboratory and Chromium testing kit.	Complied and dedicated environmental Management Cell is functioning.

THANGSKAL

(xi)	Monitoring functions. A state of the art Chromium testing kit shall be maintained in the laboratory. All pollution control equipment in STP of the type specified by the project proponent shall be duly	Sewage Treatment Plant.	The STP project has been commissioned. Presently, we are upgrading the system through the connectivity of
	installed and manned full time by trained personnel appointed for the purpose.		pipeline using several points of mist to suppress the fugitive dust of our internal road areas.
(xii)	A six monthly compliance status report shall be submitted to SEIAA/SEAC and Regional Office, Ministry of Environment & Forests, Govt. of India, Shillong apart from posting the same on the website of the Company.	Six monthly report to SEIAA/SEAC and posting in website.	Complied.
(xiii)	Implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional Office, Ministry of Environment & Forests duly assisted by the SPCB. The Regulatory Authority may revoke or suspend the clearance on the recommendation of the SEAC, if implementation of any of the above conditions is not satisfactory. The Regulatory Authority	Meghalaya State concerned Offices	Concerned Authorities particularly MSPCB officials regularly visited the project area as per their requirements and we have been submitting all the reports accordingly from the very beginning.
	may on the recommendation of SEAC reserve the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions	CEME	

THANGSHAI

too.
The above conditio0ns will
be enforced, inter-alia under
the provisions of the Water
(Prevention & Control of
Pollution) Act, 1974, Air
(Prevention & Control of
Pollution) Act, 1981, the
Environment
(Protection) Act, 1986,
Hazardous Waste
(Management & Handling)
Rules, 2003 and the Public
Liability Insurance Act,
1991 along with their
amendments and Rules.









Ref: - MCL/JD/ENV/Soil & Water/2014-15/001

Date: - 29.05.2014

To, The Director, Soil and water Conservation Department, Shillong, Meghalaya

Sub: - Technical guidance for Rain Harvesting Pit.

Ref: our letter No. MCL/ENV/013/2012-13/02 dated 8th February'2014

Dear Sir.

With reference to the above we would like to draw your kind attention on the captioned subject to provide us your technical guidance from your department to develop our existing rain harvesting pit which we have constructed inside our plant area. Presently we are using the water for the purpose of our daily water consumption requirements for domestic as well as plant from the same pit. We have requested your good-office vide our above referred letter to give us your technical expert(s) guidance for the same but so far no pronouncement received from your end. As per the MoEF compliance report it should be approved by the State Water Authority.

Under the circumstances we humbly request your good-self to look into the matter and provide us the experts guidance at the earliest to enable us to comply the environmental stipulations properly.

Thanking you,

Yours faithfully,

For Meghalaya Cements L

(R.K. Pareek) President

Encl: - copy of our letter dated 8th Feb 2013

Birectorate of Fig. 1. Conservation of the Con



Sales & Marketing Office:
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel.: 0361 2345421/22/23, Fax: 0361 2345419
E-mail: gurwahat@topcam.in
Web:: www.lopcern.in

BE-77, Salt Lake City Sector-1, Kolkata - 700 064 Tel.: 033 2334 0666 / 0004 Fax: 033 2334 0505 E-mail: kolkata@topcem.in Registered Office: Village Thangskai, P.O. Lumshnong Pin - 793 200, District Jaintia Hills, Meghalaya Tel.: 13655 278324 / 363 / 364 Fax: 33655 278327

Fax: 03655 278327 E-mail: meghalaya@topcem.in

HELPLINE NO: 18001233666



MEGHALAYA CEMENTS LIMITED



Dated 8th February, 2013.

MCL/ENV/013/20012-13/02

To,

Shil. D. Langstieh Director, Soil & Water Conservation Department, Shillong, Meghalaya

SUB :- Detail Scheme for Rain harvesting to recharge the ground water aquifer

Dear sir .

With reference to above subject, we beg to inform you that we are complying the compliances and conditions under MOEF North Eastern Regional Office Shillong for our expanded project. Under the above MoEF Compliances report, we need to have your department al technical guidance on rain harvesting pit scheme in hilly and rocky area where we have under ground earth fissures to hold the water.

Therefore we wish to seek your technical experts & technical guidance on above subject. We humbly request your department to guide in this regard

Thanking you

Yours Faithfully,

For Meghalaya Cements Limited

(R.K. Pareek) President

Directionite of Soul & Water Conservation

Sales & Marketing Office: Maga Plaze, 4th Floor, Christian Basti G.S. Road, Guwahall - 761 005 Tel.: 0361 2345421/22/23, Fax: 0361 23454:19

CE-25, Salt Lake City Sector-1, Kolkata - 700 064 Tel.: 033 2334 0666 / 0004 Fax: 033 2334 0505

Registered Office : Village Thangskal, P.O. Lumehnong Pin - 793 200, District Jaintia Hills, Meghatay Tal.: 103955 278324 / 363 / 364 Fax: 103655 278327

THANGSKA



SMS'TOPCEM' TO 56970 For Complete Building Solution



Anneoure II

Six Monthly Report: Stack Emission and Ambient Air Quality, 2014

	2	uspende	ed Partic	ulate N	Matter_	(SPM):mg	/Nm ³
Chimney	June	July	August	Sept.	Oct.	Nov.	Avg.
Primary Crusher	44.7	44.9	44.9	43.1	46.2	40.7	44.08
econdary Crusher	41.7	39.7	39.7	39.7	42.2	44.1	41.18
Coal mill 1	33.6	33.1	33.1	28.5	35.2	41.1	34.10
Coal mill 2	38.5	35.8	35.8	33.5	38.8	40.7	37.18
RABH 1	29.5	27.1	27.1	35.7	35.2	33.2	31.30
RABH 2	33.9	33.0	33.0	35.7	29.7	37.1	33.73
ESP 1	27.0	24.8	24.8	26.0	21.4	25.5	24.92
ESP 2	31.2	32.3	32.3	33.1	36.1	32.7	32.95
Packing House	39.6	36.4	36.4	44.3	41.8	43.5	40.33
Cement Mill	40.5	41.2	41.2	38.4	31.0	36.8	38.18

			Amb	lent Air	Quality	(AAQ)	μg/Nm³	
Locat	ion	June	July	August	Sept.	Oct.	Nov.	Avg.
DG	PM 10	62.44	51.47	82.56	59.80	78.74	66.14	66.86
House	PM 2.5	24.60	37.19	32.81	41.87	50.94	37.92	37.56
Guest	PM 10	45.86	55.68	47.20	50.58	43.88	37.60	46.80
House	PM 2.5	14.25	17.12	22.60	15.32	22.70	17.4	18.23
	PM 10	69.63	78.54	57.23	71.62	86.11	74.51	72.94
Crusher	PM 2.5	35.89	46.23	55.93	54.02	56.10	61.58	51.63

Analyzed & Verified by



July

Dr.P.C.Mishra

Six Monthly Report: Noise Intensity and Water Consumption, 2014

				Nois	e Inten	sity:(Db)	
Locat	ion	June	July	August	Sept.	Oct.	Nov.	Avg.
DG	Day	69	77	79	65	74	78	73.67
House	Night	61	69	70	53	54	68	62.50
Guest	Day	66	61	62	58	62	58	61.17
House	Night	59	57	54	53	49	55	54.50
	Day	75	76	73	72	71	75	73.67
Crusher	Night	68	64	63	55	53	69	62.00

	Water Consumption: KL								
Location	June	July	August	Sept.	Oct.	Till 28 th Nov.	Avg.		
Domestic	3431	3936	3599	3676	3827	3490	3659.83		
Industrial	37170	34667	37000	40851	41169	42549	38901		

Analyzed & Verified by

THANGSKAI OF THE MESSIVE THE M

Dr.P.C.Mishra

Amestra: II

Six Monthly Report (CPP): SPM, AAQ and Water Consumption, 2014

		5	Suspende	ed Partic	culate M	atter (S	SPM):mg/N	lm ³
Chimne	y: CPP	June	July	August	Sept.	Oct.	Nov.	Avg.
		45.7	41.3	41.3	38.9	Nil	Nil	41.8
te: Pre	sently, th	ere is a	shutdown	of CPP for	r mainten	ance work	•	
			Amb	ient Air	Quality	(AAQ):	µg/Nm³	
Locatio	on: CPP	June	July	August	Sept.	Oct.	Nov.	Avg.
	PM 10	60.34	58.23	48.98	44.25	50.25	43.27	50.89
S↔E	PM 2.5	32.22	34.64	39.26	39.26	26.22	28.42	33.34
12.	PM 10	52.26	56.84	54.25	53.25	47.38	45.34	51.55
S↔W	PM 2.5	28.26	26.22	30.24	28.32	22.18	36.24	28.58
	PM 10	65.34	61.24	58.42	46.24	53.24	45.20	54.95
$N\!$	PM 2.5	48.80	34.25	32.48	26.25	30.10	30.26	33.69
		1,	1	L		1		
				Water	Consum	otion:M		
Locati	on: CPP	June	July	August	Sept.	Oct.	Nov.	Avg.
		37629	38683	15923	357	Nil	Nil	30745

Analyzed & Verified by

THANGSKAI

Dr.P.C.Mishra



MEGHALAYA CEMENTS LIMITED

TOPCEM

Date: 12.12.2013

To, The Divisional Forest Officer (T) West Jaintia Hills District Jowai, Meghalaya

Sub: - Request to provide 3500 nos—saplings of suitable species and also requisite quantity of some endemic species for green belt development and green house for our plant area located at Thangakai village, Meghalaya.

Dear Sir,

We would like to draw your kind attention to the fact in order to develop green belt and to mitigate the fugitive emission and to maintain eco-friendly atmosphere in East Jaintia Hills of Meghalaya, we, MCL, the pioneer of Green Field Project and need to register our requirement of suitable species of Plants from your end.

As a measure protection of rich biodiversity of North East region we need the requisite number of saplings as well as the following endemic species for our Green house project. The list of the endemic species as given by the SEIAA in our Environmental Clearance as an environmental compliance is as follows-

1)	PTRACANTHUS GRIFFTHIANU, (ACANTHACEAE)	- 100 Nos 🦴	
2)	NEPENTHES KHASIANA, (NEPENTHACEAE)	- 100 Nos	
3)	ARGASTEMMA KHASIANA, (RUBIACEAE)	- 100 Nos	Spare any
4)	FIMBRISTYL NIGROBRUNNEA, (CYPERACEAE)	- 100 Nos	of 3 to 4
5)	TRIVALVARIA KANJILAJI, (ANNONACEAE)	- 100 Nos	number species
6)	BEGONIA RUBROVENIA, (BEGONIACEAE)	- 100 Nos	A Part Coll Service Teacher Coll Coll Part Per
7)	CEOLOGYNE OVALIS, (ORCHIDCEAE)	- 100 Nos	ļ.

Apart from the above mentioned endemic species also provide us the following saplings: -

1) GULMAHAR	- 800 Nos
2) SILVER OAK	-800 Nos
3) KADAMBA	- 500 Nos
4) TITA CHAPA	500 Nos
5) ROYAL PALM	- 400 Nos
6) GOMARI	- 500 Nos

Further as per the condition of Environmental Clearance thirty three percent of the some property area shall be developed as green belt and suitable species in respect of the same for the stated area shall be approved by the project proponent from the D.F.O. (T) of Jiantia Hills District.



Saine & Harlading Office ; Mage, Piezz, Ade, Pape, Calcidino Hard G.E. Piezd, Canadad - 761 COS Tel.: 2005 2246427122222, Fran: 10395 22466178 E-mail : garantud Giopeone, in

HELPLINE NO: 18001233666

Kelkelm: BE-77, Sell Lake City Sector-1, Kolkelm - 700 064 Tel.: USS 2334 0665 0004 Fax: USS 2334 0605 Registered Office: Village Therapital, P.O. Lisselmong Pla - 198 200, Distoit Juinta Hille, Minghalaye Tel: 10085 278327 289 294 Fee: 10085 278327





an view of the above you are requested to kindly instruct the concerned Nursery to arrange and issue us the above saplings at the earliest and also guide us in respect of conservation plots of the endemic species listed above. We are to inform you the cost of the Plants will be borne by us.

Thanking you,

Yours faithfully,

For M/2 Meghalaya Cemanis & Imited,

(R.K. Pareek) President



NORTH-EASTERN HILL UNIVERSITY DEPARTMENT OF ENVIRONMENTAL STUDIES

Umshing, SHILLONG - 793 022, INDIA

Tel: 036 2721159(0); 0364-2550009(R); 09436100702 (M); e-mail <opsinghnehu@rediffmail.com>

No. OPS/MCL Project Proposal/2014-32

Dated: June 7, 2014

Dr. O. P. Singh Professor & Head

To Shri R. K. Pareek President Meghalaya Cement Limited Village Thangskai, P.O.- Lumshnong Pin-793200, District Jaintia Hills, Meghalaya

TAI6

Ref. Your letter MCL/JD/ENV/2014-15/001 dated 29th May, 2014

Sub.: Request for support for a Research & Development project on conservation of threatened category of species for Cement Manufacturing unit

Dear Shri Pareek

Thank you for your above mentioned letter seeking technical guidance and support of our Department for conducting a research project for conservation of threatened category of species.

In this regard, I would like to mention that we will be able to render the technical guidance and support by conducting the project as desired. However, we would like know the details of Terms of Reference (ToR) particularly regarding Area to be covered, Activities to be undertaken, Time schedule etc.

I, therefore, request you tom kindly furnish us the ToR for further necessary action from our side. If possible a meeting can be arranged to discuss the matter in detail.

Thanking you,

Thanking you,

Sincerely yours

O. P. Singh

Note: A copy of The letter already sent to you via email (megholagete)

Annepure I

The Revenue Expendinture incurred on Environmental Protection Equipment / Machinery From 01.06.14 to 30.11.14

SL.NO.	HEADING	AMOUNT
1	Bag Filter (Cement Mill, Coal Mill, Raw Mill, Crusher etc)	424,114
2	Reversible Air Bag House (RABH)	1,645,631
3	Electrostatic Precipitators (ESP)	396,624
4	Raw Materials Yard	355,107
	Total	2,821,476



Annesoure VI

Expenditure Incurred for Socio-Economic Development under CSR From 01.06.14 to 30.11.14

SL.NO.	HEADING	AMOUNT
1	Emphasis on Education	258,091
2	Encouraging/Felcitation prog for students	37,620
3	Awarness campaign for personally given	31,000
4	Polio Immunization Camps,Family planing etc.	252,703
5	Infrastructure development of Hospitals/Schools + (New Ambulance Cost)	627,372
6	Cement Distribution Programe	3,331,200
7	Plant Distribution Programe	88,400
8	Donation to Churches & Road Repairing etc.	35,700
9	Drinking water supplying schemes	491,039
10	Village Development Funds	83,334
	Total	5,236,459

