JK LAKSHMI CEMENT Ltd.

JKLC/ENV/2014/HY/DEC- II

20/11/2014

The Director,
Ministry of Environment & Forests,
Regional office (Northern Region)
Bay No.24-25, Sector 31-A,
Dakshin Marg,
Chandigarh-160030

Subject: **Half-yearly Condition wise Compliance report (Hard as well as soft coy) of Environmental Clearance for our Clinker Grinding Unit capacity 2 x 0.75 MTPA, Captive Power Plant 2 x 20 MW and 2x 5 MW DG sets at Village – Bajitpur, Tehsil – Matanhail, District – Jhajjar (Haryana)**

Dear Sir,

With reference to the SEIAA Environmental Clearance (EC) Letter No. - SEIAA/HR/2011/42/dated 19/01/2011, we are submitting herewith the half-yearly compliance report (Hard as well as soft coy) for the period from April 2014 to September 2014.

Thanking You,

Yours faithfully

For **JK Lakshmi Cement Ltd.**

(S.K.Saxena)
Vice President – Jhajjar Unit & QA

Enclosed: As above

CC 1. The Member Secretary, C – 11,Haryana Pollution Control Board, Sector – 6 Panchkula.
2. Regional Officer, Haryana Pollution Control Board, Bahadurgarh, Jhajjar (HR).
3. State Environment Impact Assessment Authority, Haryana, Bay no. 55-58, Prayatan Bhawan Sector – 2, Panchkula.
4. The Director (s), Monitoring Cell, MoEF, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.

Compliance Report of Environmental Clearance

(LETTER No. SEIAA/HR/2011/42 DATED 19-01-2011)

Period: April 2014 to September 2014

Sr. No.	Condition	Compliance Status
A. Specific Conditions:		
i.	Capacity of the Cement Grinding Unit, Captive Power Plant and DG sets for the proposed plant shall not exceed 2x0.75MTPA,2x20 MW & 2X5 MW receptivity.	Noted.
ii	Other necessary statutory clearances from the concerned Departments including No Objection Certificate from the Haryana Pollution Control (HSPCB) shall be obtained prior to commencement of construction / or operation	Being Complied. NOC renewed for our proposed project i.e. Captive Power Plant capacity 2 X 20 MW & DG Sets 2 X 5 MW on dated 05/12/2013 letter no. HSPCB/CONSENTS/;2776713 JHACTE350578 from HSPCB.
iii.	Continuous on – line stack monitoring facilities to monitor SPM emissions from all the major stacks shall be provide. Limit of SPM shall be controlled within 50 mg/Nm^3 in case of cement grinding unit & 100 mg/Nm^3 in case of captive power plant unit by installing adequate air pollution control system viz. Electrostatic precipitators, bag house, bag filters and stack of adequate height etc. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution equipment not working, the respective unit (s) is shut down automatically. Data on ambient air, fugitive and stack emissions shall be submitted to the ministry's Regional Office at Chandigarh, Haryana State Pollution Control Board (HSPCB) and CPCB regularly.	Complied. We have provided all the adequate facilities for monitoring sampling hole, proper platform with electric connection As per Emission regulation Part - III published by CPCB & also installed the Continuous online monitor (Opacity Meter), Make – Dust hunter 50 (Sick) at Cement Mill Bag house stack - I & Cement Mill Bag house stack - II for regular/continuous / online stack emission monitoring & found results always within the prescribed standard of Pollution Control Board. Stack Emission measurement is taken every month & Ambient air Quality measurement is taken Twice a week. The stack emission result is well within the prescribed norms (≥50) Stack emission Report from **April 2014 to September 2014** is enclosed as **(Annexure – 1)** In addition to that, the regional office Bahadurgarh team is also doing the monitoring on regular basis and results are well within the prescribed norms Also we have carried out the Stack

		emission monitoring, AAQ monitoring, Ambient Noise level monitoring, point source noise level monitoring, Fugitive Dust Emission monitoring etc. by NABL & MoEF Approved commercial test house Laboratory Gurgaon JM Enviro Lab Pvt. Ltd. Twice in the Year. The latest Environmental Monitoring was carried out from 05/09/2014 to 06/09/2014, report attached for your reference please. **Interlocking facility** - Interlocking facility has been provided in PLC (Programmed Logic Control) PLC controlled computer operation of the plant in such a way that in the event of PCE Tripping, plant gets shut down automatically.
iv	An action plan shall be prepared and submitted to the Ministry's Regional Office at Chandigarh, HSPCB and SEIAA Haryana for the control of SO2 emissions from the captive power plant.	We have commissioned & started operation / Production of Cement Grinding Unit – II, capacity 0.75 MTPA (Million tons per Annum) on March 2014 Referred project i.e Captive Power Plant (CPP) 2 X 20 MW and DG Sets 2 X 5 MW are under pipe line. To Control the SO2 emission from the CPP, required quantity of Limestone shall be used along with the coal for the absorption of SO2. Lime stone converted to CaSO4 shall be used in cement as substitute of Gypsum.
v.	Ambient Air quality monitoring (AAQM) stations shall be set up as per statutory requirement in consultation with the Haryana State Pollution Control Board (HSPCB). 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 shall be carried out regularly in consultation with HSPCB and data submitted to the CPCB and HSPCB regularly. The instruments used for the ambient air quality monitoring shall be calibrated time to time.	Ambient air quality (AAQ) is being monitored on regular basis at 03 locations approved by HSPCB and results are well within the prescribed norms Locations are given in below table Sr. No. / Location Name / Direction 1 / Location A / NE 2 / Location B / SE 3 / Location C / NW Ambient air Quality monitoring report **from April 2014 to September 2014** is enclosed as **(Annexure 2).** Calibration of instruments (used for AAQM) is regularly carried out.
vi.	The national Ambient Air Quality Emission Standards issued by the Ministry Vide G.R.S No. 826 (E) dated 16th November, 2009 shall be followed.	Being complied.
vii.	The Company shall install adequate dust collection and extraction system to	For maintaining the good housekeeping both within factory and in the premises,

	control fugitive dust emission at various transfer points, raw material handling (unloading, conveying, transporting, stacking, Vehicular movement, bagging and packing areas etc. All the raw material shall be stored in covered shed / silos. All conveyers shall be covered with GI sheet. Covered sheds for storage of the raw materials and fully covered conveyers for transportation of materials shall be provide besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	we have carried out various activities like constructed Silos/ Covered shed for raw material storage, Raw material Storage facilities at plant : **1. Clinker**: Concrete Clinker Storage Silos (02 Nos.) – 6000 MT Each. **2. Fly Ash :** Fly Ash Silos (02 Nos) – 500 MT each. **3. Cement** : Concrete Cement Silos (02 Nos) : 4000 Mt Each. **4. Gypsum** : Gypsum Store in Covered Shed. All the roads inside the plant are concreted to reduce the dust generation during the movement of vehicles, We have provided 01 nos. of vacuums cleaning road-sweeping machine for effective and speedy cleaning of floors & approach roads inside the plant. Apart from this, we have provided Bag filters at various transfer points to trap dust generated during transfer of material. We are maintaining the ambient air quality at the boundary of the factory premises well within the prescribed limits. **All PCEs Location map list is enclosed as <u>Annexure - 3</u>**
viii	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 and shall not be overloaded.	Being Complied. We are taking all necessary measures for control / reduce impact of transportation of raw materials. Fly ash has transported through closed containers & not be overloaded.
ix.	Asphalting / concreting of roads shall be carried out to control fugitive emission. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regards	Being Complied As advised Asphalting / concreting of internal roads have been constructed for maintaining the good housekeeping in site /plant premises.

x.	All efforts shall be made to 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 leading to zero exit discharge.	Noted & Being Complied. No waste water generated in cement manufacturing process. We shall provide highly modified air cooled condensers to reduce water consumption in our proposed CPP and shall maintain Zero discharge status
xi.	The Project proponent has committed for 20 rain water harvesting pits. Efforts shall be made to make maximum use of rain water harvested	Being Complied. We have developed the roof top rain water harvesting structures inside the plant building like Store Building, Laboratory Building, 33 KV Sub Station, Gypsum Shield etc. & also working on rain water harvesting arrangements in the plant and shall develop a state of art arrangement for rain water harvesting Pre – preliminary survey for whole plant has been done on rainwater potential at inside the plant by Furaat earth (p) Ltd. Ahmedabad & the complete job will be completed before financial year ending 2015. we will developed state of art rainwater harvesting structures inside the plant We have proposed Rs 40 lac as Capital Expenditure for implementation of Rainwater Harvesting System inside the plant.
xii.	All the bag filter 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/ preprocessors' only	We have provided required Pollution Control Equipment at all the sources of emission for its effective control. We are doing regular monitoring of all the Pollution Control equipment and found results always within the prescribed standard of Pollution Control Board. Dust collected in the bag filters reused 100% in cement manufacturing. Used oil is being sold to authorized recyclers only also we have taken the membership of HEMS & GEPIL for proper and safe disposal of hazardous waste. **A copy of membership certificate is enclosed as <u>Annexure – 4.</u>**
xiii	All the fly ash generated from the captive power plant shall be utilized for the cement manufacturing as per Fly ash Notification, 1999 subsequently amended in 2003	Being Complied.

xiv.	Efforts shall be made to use more fly ash in the cement manufacturing.	Being Complied. Presently we are using approx. 30% of Fly ash in cement manufacturing
xv.	As proposed, green belt shall be development in at least 2.54 ha. (33%) area in and around the plant area to mitigate the effects of air emissions in consultant with local DFO. It should be ensured that minimum 20% area should be covered as shelter belt and avenue plantation.	We have developed extensive tree plantation in and around the plant premises covering 30 types of plant species selected on the basis of scientific study. Till date we have planted more than 3 thousand plants. Apart from this we have developed thick green belt around the Plant Premises. **Green Belt Development/ Plantation Report is enclosed as Annexure - 5**
xvi.	All the recommendations made in the chapter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented	Being Complied.
xvii.	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 28.10.2010 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Chandigarh.	Being Complied.
xviii.	The Company shall provide housing for construction labour within the site with all necessary infrastructure and 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.	Being Complied. We have taken care for them provided all necessary infrastructure facilities such as toilets, water facilities, electricity, medical healthcare & medicines etc.
Sr. No.	**Conditions**	**Compliance Status**
B. General Conditions		
i.	The Project authority must adhere to the guidelines issued by the MOEF – GOI and the State Govt.	Noted & being Complied.
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this approval of SEIAA Haryana	Noted & Being Complied.
iii.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31th December, 1993 or as amended from time to time. The treated wastewater	Noted. No effluent generated from the Cement grinding unit. Only waste water shall be generated from DM Plant of the CPP, which shall be properly collected and treated in neutralization pit and shall be

	shall be utilized for plantation & sprinkling purpose.	used in dust suppression within the plant premises
iv.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 Environment (Protection) Act 1986 Rules, 1989 viz 75 dBA (Day time) and 70 dBA (night time). Compliance to all the standards for DG sets for noise shall be ensured and acoustic enclosures around DG sets shall be provided.	Being Complied. We have incorporated all necessary measures for control of Noise in the plant while designing/equipment as below: • The operators working in the high-noise area are provided with proper Personal Protective Equipment (PPEs) like Ear Plug, Ear Muffs etc. to avoid any nuisance generated due to noise. • Attempts are being made to restrict high noise operations viz. restarting after shut down, etc. • Noise barriers in the form of additional trees are being grown around administrative blocks, technical site office and other such units. • Critical vent valves are equipped with silencers. • Training is being provided to all employees regularly in order to generate awareness about damaging effects of noise. Ambient Noise Level & Machinery Noise level monitoring report from **April 2014 to September 2014** is enclosed as **Annexure – 6.**
v.	Proper housekeeping and adequate occupational health programmes must be taken up. All the persons working in the sensitive are as shall wear protective covers. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six month.	Being Complied. For maintaining the good housekeeping both within factory and in the premises, we have carried out various activities like constructed Silos/ Covered shed for raw material storage, All the roads inside the plant are concreted to reduce the dust generation during the movement of vehicles, We have provided 01 nos. of vacuums cleaning road-sweeping machine for effective and speedy cleaning of floors & approach roads inside the plant. Apart from this, we have provided Bag filters at various transfer points to trap dust generated during transfer of material. We are maintaining the ambient air quality at

		the boundary of the factory premises well within the prescribed limits. We shall implement as advised once the plants commissioned. **Health Checkup of employees is carried out in Mittal Clinic Charkhi Dadri under supervision of Dr. Ex. Captain B.L. Basiya & Team.** In this exercises a comprehensive general physical and systematic examination is carried out for Staff, Workers and Contractors. The general and occupational health of the examination persons was found satisfactory Health checkup report is enclosed as **Annexure – 7.**
vi.	The Project proponent shall also comply with all the environmental protection measures and safe guards recommended in the Rapid EIA/EMP.	Being Complied.
vii.	As proposed Rs. 25 Crore earmarked towards captive cost and recurring cost/annum for environmental pollution control measures shall be used exclusively for pollution control purpose & to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government	Noted & Being Complied. The total amount 25 crores is for the complete project. During the 1st phase of the project implementation i.e. grinding units (2 X 0.75 MTPA) we have incurred Rs. 19.00 crores on environmental pollution control measures.
viii.	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 to the Regional office of MoEF, HSPCB and SEIAA. The Regional office of this MOEF / HSPCB shall monitor the stipulated conditions.	Being Complied. We are here by submitting six monthly reports, which is due in December 2014.
ix.	The Environmental statement for each financial year ending 31st March in the mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) rules, 1986 as amended subsequently.	Complied. The Environmental statement report for the financial year ending March 2014 in form V in respect of our Cement Grinding Unit (2 X 0.75 MTPA) was submitted on 11 August 2014 to the concerned State Pollution Control Board as prescribed under the Environment (Protection) rules, 1986 as amended subsequently & for 2014-2015 will be submitted before September 2015.
x.	The SEIAA & MOEF or any competent authority may stipulate any further condition (s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located	Noted.

	at Chandigarh & HSPCB.	
xi.	The SEIAA Haryana may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted.
xii.	Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bounded manner.	Noted.
xiii.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.
xiv.	The Project proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter are available with the state Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana	Complied.

(S.K.Saxena)
Vice President – Jhajjar Unit & QA

Annexure - 1

JK Lakshmi Cement Ltd.
Jhajjar Unit

Stack Emission Monitoring Report (Avg. SPM in mg/Nm3)

Period: April 2014 to September 2014

Sr. No.	Location	April	May	June	July	August	September	Min	Max	Average
1	Cement Mill Bag house - I	20.41	18.20	12.89	14.79	16.10	14.20	12.89	20.41	**16.09**
2	Cement Mill Bag house -II	16.20	22.14	16.23	20.16	16.1	13.20	13.20	22.14	**17.33**

Manager (Env.)

Annexure - 2

JK Lakshmi Cement Ltd.
Jhajjar Unit

Cement Grinding Units – Data Sheet for Ambient Air Quality Monitoring

Period: April 2014 to September 2014

Month	At Location (A) µg/M3					At Location (B) µg/M3					At Location (C) µg/M3				
	PM 2.5	PM 10	SO2	NO2	CO	PM 2.5	PM 10	SO2	NO2	CO	PM 2.5	PM 10	SO2	NO2	CO
April	30.92	44.08	11.23	14.92	BDL	32.62	46.15	11.69	16.77	BDL	36.85	50.62	11.54	14.38	BDL
May	31.15	44.00	10.62	15.85	BDL	33.08	47.08	10.00	15.38	BDL	35.08	46.85	11.85	14.46	BDL
June	28.50	43.75	10.17	16.08	BDL	28.67	43.75	12.50	16.58	BDL	31.75	48.00	12.08	17.67	BDL
July	27.00	40.15	10.15	15.85	BDL	27.38	41.77	11.77	16.15	BDL	31.62	44.54	11.23	16.85	BDL
August	24.00	37.46	9.15	15.00	BDL	26.00	39.38	10.00	14.69	BDL	29.69	42.54	10.00	15.08	BDL
September	21.31	35.38	10.23	15.54	BDL	23.62	37.08	12.23	17.77	BDL	24.77	39.15	11.69	19.85	BDL
Avg.	**27.14**	**40.80**	**10.25**	**15.54**	**BDL**	**28.56**	**42.53**	**11.36**	**16.22**	**BDL**	**31.62**	**45.28**	**11.39**	**16.38**	**BDL**

Manager (Env.)

Annexure-3

JK LAKSHMI CEMENT LTD.
UNIT - JHAJJAR (2 x 0.75 MTPA)
Details of Polution Control Equipments

Sr. No.	Pollution Control Equipment	Equipment No.	Attached with	Capacity M3/Hr.	Temp. C	Fan flow - M3/Hr.	Fan - Kw.	No. of Bags	Fabric Type	Size of Bags - dia X length mm	Stack/Vent dia in mm.	Dust Concentration	
												Intet (gm/m3)	Outlet mg/m3
1	Bagfilter	481 BF-1	Clinker Dump Hopper	25000	60	275000	45	270	Polyester needle felt	127 X 3350	600	100	< 50
2	Bagfilter	481 BF -2	Clinker Silo Top	10000	45	11500	18.5	90	Polyester needle felt	127 X 3350	500	100	< 50
3	Bagfilter	481 BF - 3	Gypsum Dump Hopper	7000	45	7700	15	60	Polyester needle felt	127 X 3350	400	100	< 50
4	Bagfilter	481 BF - 4	Storage Hopper Top	7000	45	7700	15	60	Polyester needle felt	127 X 3350	400	100	< 50
5	Bagfilter	481 BF - 5	Clinker Silo Extraction System	7000	45	7700	15	60	Polyester needle felt	127 X 3350	400	100	< 50
6	Bagfilter	530 BF-1	Storage Hopper Top	10000	45	11000	18.5	90	Polyester needle felt	127 X 3350	400	100	< 50
7	Bagfilter	530 BF-2	Mill Feed Conveyor	7000	45	7700	15	60	Polyester needle felt	127 X 3350	400	100	< 50
8	Bagfilter	530 BF-3	Dump Hopper	5000	45	5500	11	42	550GMS/polyster oil / water repellent	127 X 3350	1125	100	< 50
9	Baghouse	560 BF-1	Mill Vent	40680	105	44690	55	420	Homopolyer needle felt	127 X 3350	1125	100	< 50
10	Baghouse	560 BF-2	Classifier Vent	36620	97	44690	55	456	Homopolyer needle felt	127 X 3350	400	100	< 50
11	Bagfilter	611 BF -1	Cement Silo Top (Silo No. - 1)	4000	130	4400	7.5	38	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
12	Bagfilter	611 BF -2	Cement Silo Top (Silo No. - 1)	3000	130	3300	5.5	38	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
13	Bagfilter	611 BF -3	Cement Silo Top (Silo No. - 2)	4000	130	4400	7.5	38	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
14	Bagfilter	611 BF -4	Cement Silo Top (Silo No. - 1)	3000	130	3300	5.5	38	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
15	Bagfilter	761 BF -1	Fly Ash Silo Top	8500	130	-	-	83	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
16	Bagfilter	761 BF -2	Fly Ash Weigh Bin	3500	130	3850	5.5	34	550GMS/polyster oil / water repellent	149 X 3050	900	100	< 50
17	Bagfilter	621 BF1	Packing Plant	38000	130	42000	75	380	550GMS/polyster oil / water repellent	149 X 3050	900	100	< 50
18	Bagfilter	482 BF- 1	Clinker Dump Hopper	25000	60	27500	45	270	Polyester needle felt	127 X 3350	600	100	< 50
19	Bagfilter	482 BF- 2	Clinker Silo Top	10000	45	11500	18.5	90	Polyester needle felt	127 X 3350	500	100	< 50
20	Bagfilter	482 BF- 5	Clinker Silo Extraction System	7000	45	7700	15	60	Polyester needle felt	127 X 3350	400	100	< 50
21	Bagfilter	532 BF- 1	Storage Hopper Top	10000	45	11000	18.5	90	Polyester needle felt	127 X 3350	400	100	< 50
22	Bagfilter	532 BF- 2	Mill Feed Belt Conveyor	7000	45	7700	15	60	Polyester needle felt	127 X 3350	400	100	< 50
23	Baghouse	562 BF- 1	Mill Vent	40680	105	44690	55	420	Homopolyer needle felt	127 X 3350	1125	100	< 50
24	Baghouse	562 BF- 2	Classifier Vent	36620	97	44690	55	456	Homopolyer needle felt	127 X 3350	1125	100	< 50
25	Bagfilter	613 BF- 1	Cement Silo Top (Silo no 3)	4000	130	4400	7.5	38	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
26	Bagfilter	613 BF- 2	Cement Silo Extraction system	3000	130	3300	5.5	38	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
27	Bagfilter	763 BF-1	Fly Ash Silo Top	8500	130	-	-	83	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
28	Bagfilter	763 BF-2	Fly Ash Weigh Bin	3500	130	3850	5.5	34	550GMS/polyster oil / water repellent	149 X 3050	400	100	< 50
29	Bagfilter	623 BF1	Packing Plant	38000	130	42000	75	380	550GMS/polyster oil / water repellent	149 X 3050	900	100	< 50

Annexure-4

HARYANA
GEPIL
PROTECTING FUTURE

A Luthra Group company
GUJARAT ENVIRO PROTECTION
& INFRASTRUCTURE (HARYANA) Pvt.Ltd.
Near Pali-Mohabatbad Stone Crusher Zone.
Pali, Faridabad - 121004
Tel. : +91 124 324500 Fax : + 91 124 2577600
E-mail : haryana@luthraindia.com

Certificate

Certificate No: CH1W1J0074

To Whomsoever it may concern

This is to certify that

JK LAKSHMI CEMENT LTD.

VILLAGE - BAJITPUR, POST - JHAMRI,
TEHSIL - MATANHAIL,
JHAJJAR,
BAHDURGARH

is a valid member of

Gujarat Enviro Protection & Infrastructure Ltd.

for Integrated Common Hazardous Waste Management Facility.

This membership is valid for a period of

5 Years

Date of issue : *26/05/2012*

Date of expiration : *25/05/2017*

Place of issue : *Surat*

For, Gujarat Enviro Protection & Infrastructure Ltd.

Director/Authorised signatory

Waste Information :

SrNo	Type Of Waste	Sign Qty (TPA)	SrNo	Type Of Waste	Sign Qty (TPA)
1	USED OIL	1.000			
				Total Sign Qty (TPA) :	1.000

SUBJECT TO FARIDABAD JURISDICTION

HARYANA
ENVIRONMENTAL
MANAGEMENT
SOCIETY
SCO 45, Ist Floor, Sector-31,
HUDA Market, GURGAON -122001
Haryana (INDIA)
Telefax 0124-4100269
Tel 0124-4031501
E-mail : hems_hry@airtelmail.in
: hems_hry@rediffmail.com

HEMS:MSP/BDR/01/
May 7, 2012

M/s J.K.Lakshmi Cement Ltd.
Vill. - Bajitpur, Teh. Matanhali
Distt. Jhajjar - 123305 (Haryana)

Kind Attn. : **Sh. Naveen Kr. Sharma - Sr. GM**

Subject : **Membership of HEMS**

Dear Sir,

Your request for membership of Haryana Environmental Management Society (HEMS) was considered by Society and was approved.

Your membership No. is **HEMS:CML/BDR/284.** Kindly quote this no. in all future correspondence.

Thanking You,

For & on behalf of
Haryana Environmental Management Society

Signatory

Encl: Receipt No.7470

Annexure - 5

JK LAKSHMI CEMENT LIMITED
UNIT- JHAJJAR

Greenbelt Development (Plantation) As on 30.09.2014

S. No.	Year of Plantation	Number of Plant Planted	Number of Plant Survived	Survival Rate (%)	Area Covered in Plantation (Hectare)
1	2011-2012	719	690	96	0.34
2	2012-2013	1800	1710	95	**1.53**
3	2013-2014	**750**	**713**	**95**	**0.64**
4	**2014 -2015**	**50**	**50**	**100**	**0.04**
	Total	**3319**	**3163**	**96.5**	**2.55**

Total Project Area (Hectare / Acre)	Proposed area for Greenbelt development (Hectare / Acre)	Area used for plantation (Hectare / Acre)	Area Covered under Plantation (In %)
7.94 / 19.63	2.62 / 6.47	2.55/ 6.30	97.32

List of Species for Plantation

Sr. No.	Scientific Name	Local Name
1.	Azadirachta indica	Neem
2.	Dalbergia sissoo	Sisam
3.	Ficus religiosa	Pipal
4.	Delonix regia	Red Gulmohar
5.	Holoptelea integrifolia	Papri
6.	Emblica officinalis gaertn	Amla
7.	Plumeria	Champa
8.	Bougainvillears	Bougainvillea
9.	Arecaceael palmae	Palm tree
10.	Mangifera indica.l	Mango
11.	Manilkara zapota	Chikoo
12.	Ziziphus mouritiana	Ber
13.	Citrus	Mosambi
14.	Polyalthia longifolia	Ashoka
15.	Roystonia regia	Bottle Palm

16.	Bauhinia purporea	Kachnar
17.	Albizzia lebbek	White Siris
18.	Terminalia Arjuna	Arjun
19.	Pongamia glabra	Karanj
20.	Alstonia Scholarasis	Alstonia
21.	Prosopis Cineraria	Khejri
22.	Morus Alba	Sahtoot

Note : Further the vacant space inside the plant area is covered with grass, hedge, creepers and shrubs. More than 4000 hedge plantation has been done inside the plant.

Manager (Env.)

Annexure - 6

JK Lakshmi Cement Ltd.
Jhajjar Unit

Cement Grinding Units – Machinery Noise Level dB (A) Monitoring

Period: April 2014 to September 2014

Sr. No.	Location	Parameters	April	May	June	July	August	September	Min	Max	Avg.
1	Compressor Room	Leq	83.20	82.10	83.12	81.10	82.30	82.20	**81.10**	**83.20**	**82.33**
2	Cement Mill - I		84.00	82.20	83.21	82.26	83.40	83.01	**82.20**	**84.00**	**83.01**
3	Cement Mill - II		83.46	83.20	82.30	83.58	82.10	82.24	**82.10**	**83.58**	**82.81**
4	Packing Plant		74.00	73.12	74.10	73.25	73.14	74.21	**73.12**	**74.21**	**73.63**
5	DG Set (500 KVA)		74.12	74.00	74.16	74.40	74.62	74.63	**74.00**	**74.63**	**74.32**
	DG Set (500 KVA)		73.45	73.69	74.00	74.10	73.60	73.14	**73.14**	**74.10**	**73.66**
	DG Set (250 KVA)		73.15	74.18	74.90	74.11	74.12	74.10	**73.15**	**74.90**	**74.09**
	DG Set (250 KVA)		73.00	74.13	73.12	74.43	73.16	74.18	**73.00**	**74.43**	**73.67**

Manager (Env.)

Annexure - 6

JK Lakshmi Cement Ltd.
Jhajjar Unit

Cement Grinding Units – Ambient Noise Level dB (A) Monitoring

Period: April 2014 to September 2014

Sr. No.	Location	Time	April	May	June	July	August	Septe mber	Min	Max	Avg.
1.	In front of Guest house (Location A)	Day	53	55	54	54	56	56	53	56	54.66
		Night	51	53	52	53	54	55	51	55	53.00
2.	Near Electrical Sub Station (Location B)	Day	59	60	60	59	60	60	59	60	59.66
		Night	57	59	58	57	58	59	57	59	58.00
3.	In front of Packing Plant (Location C)	Day	62	64	63	61	62	60	60	64	62.00
		Night	60	62	58	59	60	59	58	62	59.66
4.	Security Gate (D)	Day	56	57	59	58	55	59	55	59	57.33
		Night	54	55	53	56	53	57	53	57	54.66

Manager (Env.)

Annexure-7

MITTAL CLINIC

CHARKHI DADRI -127306 (Haryana)

Dr. (Ex. Captain) B.L. Basiya
Direct I- C Commission as Substantive Captain
Army No. MR- 2904
M.B.B.S. (1968) Ex. HCMS, AMC
Senior consulting Physician

Lady Dr. Mrs. Vimla Basiya
M.B.B.S. (1969) M.T.P. Specialist
Trained in Irwin Hospital Delhi
Senior consulting Obstetrician and Gynaecologist

Date.....

Date: 30/08/2014

Serial No. 77

To Whom it May Concern

This is to certify that the health checkup of all employees of JK Lakshmi Cement Ltd., Village Bajitpur, Post Jhamri, Distt. Jhajjar was carried by Mittal Clinic Charkhi Dadri, Distt. Bhiwani (Haryana)

In this exercise a comprehensive General Physical and systemic examination was carried out as per below;-

Staff :-76 nos.

The General and occupational Health of the examined persons were found satisfactory.

30/8/2014

Signature of the
Certifying Medical Officer

Dr. (Ex. Captain) B.L. BASIYA
M.B.B.S. (1968) Ex. HCMS,
MITTAL CLINIC, Charkhi Dadri
Registration No. 10870 (Punjab)
Year of Registration ... No. 1968