



Ref. No. JSWCL/Sal/EC-I/Comp/2018-19

Date: - 22.05.2019

To

Additional PCCF(c)

Ministry of Environment, Forest and Climate Change

Regional Office (Eastern Zone), A/3

Chandrasekharapur,

Bhubaneswar- 751023, Odisha

Sub: - Submission of Six Monthly Compliance Report against Stipulated Conditions of EC Letter

Ref:- Environmental Clearance Letter issued by SEIAA, West Bengal vide Letter No.- 89/EN/T-II-1/037/2015 dated 14.01.2016 and further amendment vide Letter No. 1771/EN/T-II-1/037/2015 dated 11.08.2016.

Sir,

With reference to above subject, hereby we are submitting the Six Monthly Compliance report for the Period of April 2018-September 2018 against Stipulated Conditions of EC Letter for our Cement Grinding Unit for production of Portland Slag Cement (PSC) and Ground Granulated Blast Furnace Slag (GGBS) of capacity 2.4 MTPA at Vill-Salboni, Dist- PaschimMedinipur, West Bengal.

This is for your kind reference and necessary record keeping purpose.

Thanks and Regards,

For JSW Cement Limited

M. Sivaramakrishna

Plant Head



CC to:-

- i. Chief Environmental Officer and Member Secretary, SEIAA, West Bengal.
- ii. The Member Secretary, West Bengal Pollution Control Board.
- iii. Regional Officer, Regional Office, WBPCB, Haldia.

JSW CEMENT LIMITED

**HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENT
CLEARNACE**

OCTOBER 2018- MARCH 2019

**CEMENT GRINDING UNIT FOR PRODUCTION OF PORTLAND SLAG CEMENT
(PSC) & GRANULATED BLAST FURNACE SLAG (GGBS) OF CAPACITY 2.4 MTPA.**

(EC- 89/ENT/T-II-1/037/2015, dated 14.01.2016)

27.04.2019



AT- SALBONI, DIST- WEST MEDINIPUR, WEST BENGAL

HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENT CLEARNACE

1. **PROJECT CODE:** 110-172
2. **NAME OF THE PROJECT:** Cement Grinding unit for production of Portland Slag Cement (PSC) & Granulated Blast Furnace Slag (GGBS) of capacity 2.4 MTPA by M/s JSW Cement Ltd. at Village Salboni, Dist. PaschimMedinipur, West Bengal
3. **CEARANCE LETTER NO. & DATE:** 89/ENT/T-II-1/037/2015, dated 14.01.2016
4. **PERIOD OF COMPLIANCE REPORT:** From October'18 to March '19

Status of the project: Plant is currently in operation with 100% capacity i.e.2.4 MTPA Cement Production.

SI.No.	SPECIFIC CONDITIONS	COMPLIANCE
i.	The gaseous emissions from various units should conform to the load/ mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.	2 Nos. Of Stacksfor 2.4 MTPA Cement millare in operationand the gaseous emissions are maintained within the prescribed limits. Monthly Stack Emission Monitoring by 3 rd party started. Continuous Stack Emission Monitoring System has been installed for both the stacks. Online transmission of Stack Emission data to CPCB server is started.
ii	Cement grinding shall be carried out in closed cement mill. Provision of dust extraction and pollution control systems along with minimum stack height of 50 M from G.L. should be made for control of emission. Highly efficient Cyclone Separators, Pulse Jet Bag Filters & ID fans should be provided for Raw Material Handling Section, Ball Mill, Silo, Packing Section. Stack emission shall be monitored at regular intervals and records maintained. The stack emission should not exceed 30 mg/Nm ³ .	Cement/ slag grinding isdone in closed circuit Roller Press mills. High efficiency Bag Houses have beenprovided for dust emission control. Stacks with 55 M height have been provided. High efficiency cyclone separators have been provided with Roller Press mill. Pulse Jet bagFilters have beeninstalled at material transfer points in Raw Material, Grinding, Packing sections. Stack emission are monitored at intervals prescribed by the WBPCB and maintained<30 mg/Nm ³ . Online Stack Emission Monitoring System has been installed for both cement mill stack and stack emission data is continuously uploading in CPCB server since 17.07.2018.
iii	Regular monitoring of the ambient air quality shall be carried	Regular monitoring of the ambient air quality started for six locations in and

	out in and around the plant and records maintained. The ambient air quality standards as per GSR 826 € dated 16.11.2009 to be maintained.	around the plant by 3 rd party govt. Recognized lab and records are maintained. Ambient Air Quality is well within the prescribed limit as per CPCB NAAQS 2009. One Continuous Ambient Air Quality Monitoring Station has been installed in North direction of the plant approximately at an Ariel distance 200 m. Monthly offline AAQ monitoring result is attached as Annexure-I .
iv.	Provision of back-up power to be made to ensure uninterrupted operation of pollution control devices.	All major pollution control devices are interlocked with the production unit so that in case of failure of Pollution Control Equipment, the production unit will be automatically stopped.
v.	Necessary permissions from various statutory authorities like Chief Controller of Explosive, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	<ul style="list-style-type: none"> ➤ Factory License has been obtained vide letter no. WBF/OL/2018/38/R dated 15.01.2018. ➤ HSD Storage License of capacity 1 X 20 KL is obtained from PESO, Nagpur by vide letter no. P/HQ/WB/15/2674 (P411740) on dated 20.09.2018. ➤ Approval for LDO storage of capacity 1 X 30 KL is obtained from PESO, Kolkata vide letter no. A/P/EC/WB/15/263 (P430400) on dated 11.10.2018. ➤ NOC obtained from District Magistrate for 1 X 100 KLD HSD Storage Tank obtained vide Memo No. 22(3)/LI (Arms) dated 08.01.2018. Obtaining Final License from CCOE is in process. <p>Factory License, HSD and LDO Storage License is sent in previous compliance(April'18 to September'18).</p>
vi.	Personal Protective Equipments shall be provided to workers and its regular use shall be ensured and supervised. First Aid Box, all types of fire extinguishers, water sprinkler, sand etc. shall be made readily available in adequate quantity at all the times. Necessary tie up with the nearby fire stations and other emergency services shall be made to ensure that the required aids reach within the shortest time in case of any adverse conditions.	<p>PPEs are provided to the workers and staff engaged in the project. We have also deputed safety officers/ supervisors in all the shifts to supervise safe work practices and use of personal protective equipment on regular basis.</p> <p>First aid boxes, fire tender, sand buckets have been provided at the project site. We also have tied up with nearby hospitals, fire stations, Ambulance Services, Panchayat, Municipal Office etc. for providing emergency services in the shortest possible time in case of an emergency.</p>
vii.	Closed loop pneumatic conveying system for all phases of handling of fly ash and GGBS at the site to be installed and maintained.	Closed loop pneumatic conveying systems have been provided for Fly Ash and GGBS handling.
Viii	Adequate dust suppression and extraction system should be provided in material storage areas, material unloading and transfer points for controlling fugitive emission. Fugitive dust	Dust suppression and extraction systems in material storage, loading and unloading and also at the transfer points have been provided for controlling fugitive emissions. Dust collected in bag filters is automatically recycled into the

	emissions from ball mill and storage area shall be collected in bag filters and recycled back to the bag loading areas and other high dust potential areas.	system. CPCB guideline on control of fugitive emission is being implemented.
ix	Groundwater shall be abstracted as per permission of the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.	Permission for Groundwater abstraction from 6 nos. Of bore wells have been obtained from the State Water Investigation Deptt., vide permit No. P1428445003490000001TSE,P1428445003490000002TSE,P1428445003490000003TSE dated 16.10.2015 and P1428446000040000001TSE, P1428445003490000001TSE and P1428456001940000001TSE dated 03.11.2017. Water drawal Permission letters are sent in previous EC compliance(Oct'17-Mar'18).
x	Process effluent discharge is not permitted. No liquid effluent shall be generated by adoption of dry grinding process.	The plant is based on dry grinding process technology and as such there no discharge of process effluent.
xi.	Clinker manufacturing is not permitted under this Environment Clearance. Clinker and Fly Ash shall be stored in the closed silos and Gypsum in covered shed.	Clinker shall not be manufactured at this facility. Clinker is stored in closed silo whereas the Fly Ash as and when received/ generated at the proposed CPP shall be stored in closed bin. Gypsum is stored under covered shed.
xii.	Solid waste viz. dust generated shall be properly recycled and reused in the process itself. The slag cement produced by mixing the fly ash generated in addition to the GGBS, as proposed, must meet the requirements of the relevant Indian Standards.	Solid waste is mainly in the form of dust collected in bag filters/ bag houses which are designed to recycle the collected dust back into the process itself so that no dust comes out of the system. The quality requirements of PSC and GGBS as per relevant IS specifications are being maintained.
xiii.	Adequate provisions should be made for harvesting rainwater. The unit may develop storage facilities of capacity 40,000 KL, as proposed, to harvest rainwater. Estimated rainwater harvesting potential of 90,000 KL/annum to be stored and fully utilized to reduce groundwater abstraction. No artificial ground water recharge is permitted.	Rainwater harvesting pit, as proposed, shall be constructed with a potential to store 40000 KL of rainwater. In addition, rainwater will also be harvested from roof top, storm drains etc. The harvested rainwater will be utilized to the maximum extent to conserve fresh water. Construction of Rain Water Harvesting Pond is under progress.
xiv.	At least 33% of the area should be kept for green belt development. At least 12500 number of trees to be planted. Indicative list of tree species to be planted in given in Annexure-1. Green belt of 15 M width to be developed all along the plant boundary. There should not be any removal/ destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of	Greenbelt is being developed and as prescribed, 33% of the area will be covered into greenbelt by planting >12500 number of tree species. We have already planted approx. 10000 tree saplings. We are in progress to develop greenbelt+Landscaping over 60 Acre (45% of the area) with 18000 tree saplings in 5 years i.e. till year 2021 monsoon. The width of the greenbelt at the plant boundary are kept 15 M.

	appropriate authority.	<p>No vegetative cover was destroyed/ removed during the establishment and operation phases.</p> <p>Around 35 Acre of Land has been developed as Greenbelt with 19000 nos. Of recommended species.</p> <p>List of Planted Saplings and Photographs are attached as Annexure-I.</p>
xv.	<p>Ambient noise levels should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).</p>	<p>Monthly Ambient Noise Monitoring is carried out in and around plant.</p> <p>Ambient noise levels are maintained well within the prescribed limits (75 dBA (daytime) and 70 dBA (nighttime) by maintaining the overall workplace noise level within the permissible limits by adopting various noise control measures such as acoustic hoods, silencers, enclosures etc. on the noise generating equipments.</p> <p>Monthly Ambient Noise Quality results are attached as Annexure-II.</p>
xvi	<p>All internal roads should be pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to Pollution under Control (PUC) norms. Proper housekeeping shall be maintained within the premises.</p>	<p>100% of Internal concrete/ paved roads completed. Proper lighting and pathway inside the factory premises are being provided. Separate pathways are provided for entry and exit of vehicles. Only PUC certified vehicles are allowed inside the plant. Speed limit for every vehicles are fixed maximum upto 20 KM/Hr. inside the plant premises in order</p> <p>Good housekeeping is maintained within the premises.</p>
xvii	<p>At least 100 KW of solar power to be generated and utilized in addition to stand alone solar power street lights.</p>	<p>Construction of Solar Plant of 3.5 MW capacity (3.0 MW Ground Mount + 0.5 MW Roof Top) has been completed. Power generated are utilized in street lighting, residential power supply and for utility power supply.</p>
xviii	<p>Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as the Factories Act.</p>	<p>Health and safety of workers is being ensured by implementing in line with OHSAS standard. Required PPEs and sanitation facilities are provided to workers at site. Work Zone Monitoring has been done. Occupational Health Surveillance shall be done on regular basis and records shall be maintained as per requirements of the Factories Act.</p> <p>Work Zone monitoring report was sent earlier in previous EC compliance (Oct'17-Mar'18).</p>
xix.	<p>Adequate measures to be adopted to ensure industrial safety. Proper fire detection and protection systems to be provided to control fire and explosion hazards.</p>	<p>Adequate measures are taken to ensure industrial safety. Fire detection and protection devices are installed at appropriate locations. Fire Hydrant, Fire Alarming System are installed. Fire Tender is purchased and Experienced Fire</p>

		Fighters are being appointed.
xx.	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines for Cement Plants shall be followed and complied.	All the applicable recommendations of CREP guidelines for cement plant are followed and being implemented.
xxi.	The implementation and monitoring of Environment Management Plan should be carried out, as proposed.	Environment Management Plan, as proposed in the EIA report, is being implemented.
xxii	All the issues raised in the public hearing should be complied with.	We are in process to comply with all the issues raised during the public hearing.
xxiii.	Atleast 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, local need and item-wise details along with time bound action plan shall be prepared and submitted to the SEIAA/ SEAC. Implementation of such programme shall be ensured by constituting a Committee comprising of the proponent, representatives of local Panchayat and District Administration. Action taken report in this regard shall be submitted to the SEIAA/ SEAC.	Rs. 13.75 Crore earmarked for Enterprise Social Commitment (ESC). We have Yearwise and itemwise budget to be spent in next 10 years. We are in the process of forming a committee for implementation of CSR programme. We will submit the details of the committee to SEIAA.
	In addition to the above provision of ESC, the proponent shall prepare a detailed CSR Plan for the next 5 years including annual physical and financial targets for the proposed project, which includes village – wise, sector-wise (Health, Education, Sanitation, Skill Development and Infrastructure etc.) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.	Detailed CSR plan is being prepared and implemented. The CSR plan will be consistent with the provisions of Companies Act, 2013. Separate budget head are created both for capital as well as revenue expenses. The details will be uploaded on company website and shall also be published in our Annual Report.

S. No.	GENERAL CONDITIONS:	COMPLIANCE
i.	The environment clearance accorded shall be valid for a period of 7 years for the proposed project.	Noted and agreed.
ii.	Prior Consent-to-Establish (NOC) for the proposed project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by the project proponent from the competent authorities.	<p>We have obtained consent to Establish from the WBPCB vide letter NOC No. 139508, Memo No. 133-2M-45/2015 (E), dated 12.02.2016.</p> <p>We have obtained Consent to Operate from the WBPCB vide Letter Consent No. CO106518, Memo No. 46-hi-CO—2/17/0016, Dated 05.07.2017 for 1,00,000 Ton/Month Cement Production (50% of 2.4 MTPA) followed by Consent to Operate from the WBPCB vide Letter Consent No. CO106563, Memo No. 165-hi-CO—2/17/0016, Dated 18.01.2018 for 1,00,000 Ton/Month Cement Production (Balance 50% of 2.4 MTPA)</p> <p>CTO letter for complete 2.4 MTPA Cement productions was sent earlier in previous EC compliance (Oct'17-Mar'18).</p>
iii.	The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply, sanitation programme for local school and health care etc.	Noted and we commit to comply with all the environmental safeguards envisaged in the EMP, Environment Clearance and the Consents issued by the board. Socio-economic development activities have been initiated and will be further strengthened in due course.
iv	All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other party.	Noted and agreed.
v.	Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of	Construction Work completed for 2.4 MTPA Cement plant. Necessary Environmental Sanitation has been provided to workers during operation phase.

	work permits. Environmental sanitation should be ensured for the workers.	
vi.	The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, West Bengal alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Rs. 26.51 Crores as capital cost and Rs. 1.03 Crores have been allotted towards implementing the Environment Management Plan (EMP. Implementation schedule is being prepared for all the conditions stipulated in this EC and will be submitted.
vii.	No further expansion or modifications in the plant should be carried out without prior approval of the state level Environment Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.	Noted and agreed. We have already obtained EC from the SEIAA for project expansion and setting up of 2 x 18 MW CPP vide Letter No. 2015/EN/T-II-1/002/2017 dated 07.09.2017. Followed by Consent to Establish vide letter NOC No. 153376 , Memo No. 654-2N-45/2015(E) dated 15.12.2017. EC letter and CTE letter are sent earlier with 1 st compliance of expansion EC.
viii.	The West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/ data by the project proponent during their inspection. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to the WBPCB regularly. A complete set of documents should also be forwarded to the State Level Environment Impact Assessment Authority, West Bengal.	Noted and agreed.
ix.	The State Level Environment Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted and agreed.
x.	A copy of the clearance letter shall be sent by the proponent	Letters to Municipal Corporation and local NGO have been sent

	to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	The clearance letter is available on our company's website www.jswcement.in
xi.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective zonal office of the WBPCB. The criteria pollutant levels namely: SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Noted. Status of EC compliance as well as monitored data will be uploaded on the website and will also be submitted to the WBPCB. Monitoring of critical sectoral parameters of the project shall be done and data displayed near the main gate is in progress.
xii.	The project proponent should inform public that the project has been accorded environment clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the SEIAA, West Bengal (http://environmentweb.gov.in). This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.	The information was advertised through publication in Times of India (English) and Amrit Bazar Patrika (Bangla) dated 22/01/2016. Copies of the advertisements have been forwarded to R.O. Eastern Region, Bhubaneswar alongwith first compliance report.
xiii.	The project authorities should inform the State Pollution Control Board as well as the SEIAA, West Bengal, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/ project implementation.	Date of financial closure of the project: 31.12.2015 Date of final approval of the project: 09.08.2016 Date of land development/ project implementation:20.02.2016
xiv.	The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air ((Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary	Noted and agreed.

	Movement) Rules, 2009, the Public Liability Insurance Act, 1991, The Environment Impact Assessment Notification 2006 and their amendments.	
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M. Sivaramakrishna

VP (Operations), Plant Head
JSW Cement Ltd.
Salboni (W.B.)