

Ankur Complex Jambedia, P.O. : Saiyedpur via Salboni Paschim Medinipur, Pin – 721147 West Bengal Phone : 8585066001 / 02 / 03 Website : www.jsw.in

Date:-25.04.2018

Ref. No. JSWCL/Sal/EC /Comp-II/2017-18

To

Additional PCCF(c)

Ministry of Environment, Forest and Climate Change Regional Office (Eastern Zone), A/3 Chandrasekharpur, 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 October 2018-March 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-Paschim Medinipur, West Bengal.

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

Thanks and Regards,

For JSW Cement Limited

Raju Ramchandran VP (MFG), Plant Head

CC to:-

- Chief Environmental Officer and Member Secretary, SEIAA, West Bengal.
 The Member Secretary, W. ... P.
- i. The Member Secretary, West Bengal Pollution Control Board.
- III. Regional Office, West Bengal Pollution Control Board, Haldia.

Regd. Office : JSW Centre Bandra Kurla Complex Bandra (East), Mumbai – 400 051 CIN : U26957MH2006PLC160839

HALF YEARLY COMPLIANCE REPORT O	OF ENVIRONMENT	
OCTO	OBER 2017- MARCH 2018	
CEMENT GRINDING UNIT FOR PRODUCTION OF P (PSC) & GRANULATED BLAST FURNACE SLAG (GGBS) OF CAPACITY 2.4 MTPA.	
(EC- 89/ENT/T-II-1/037/2015, dated 2	14.01.2016)	
	15.04.2018	
AT- SALBONI, DIST- WEST I	MEDINIPUR, WEST BENGAL	

HALF YEAF	RLY 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. Paschim Medinipur, 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'17 to March '18

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

Sl. 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 Stacks for 2.4 MTPA Cement mill are in operation and 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 will be started by May 2018.
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/Nm3.	Cement/ slag grinding is done in closed circuit Roller Press mills. High efficiency Bag Houses have been provided 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 bag Filters have been installed at material transfer points in Raw Material, Grinding, Packing sections. Stack emission are monitored at intervals prescribed by the WBPCB and maintained <30 mg/Nm3. Monthly Stack Emission Result is Attached as Annexure-I.
iii	Regular monitoring of the ambient air quality shall be carried out in and around the plant and records maintained. The	Regular monitoring of the ambient air quality started for six locations in and around the plant by 3 rd party govt. Recognized lab and records are maintained.

	ambient air quality standards as per GSR 826 \in dated 16.11.2009 to be maintained.	Ambient Air Quality is well within the prescribed limit as per CPCB NAAQS 2009. Monthly 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.	Factory License has been obtained vide letter no. WBF/OL/2018/38/R dated 15.01.2018. NOC obtained from District Magistrate for setup of 1 X 20 KLD and 1 X 100 KLD HSD Storage Tank obtained vide Memo No. 21(3)/LI (Arms) dated 08.01.2018 and Memo No. 22(3)/LI (Arms) dated 08.01.2018 respectively. Obtaining Final License from CCOE is in process. Factory License is Attached as Annexure-II .
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.	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. 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.
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. Photographs are attached as Annexure-III.
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 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.	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 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 P142844600004000001TSE, P1428445003490000001TSE and

		P1428456001940000001TSE dated 03.11.2017.
		Water drawal Permission letters are attached as Annexure-IV .
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.
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 appropriate authority.	Greenbelt is being developed and as prescribed, 33% of the area will be covered into greenbelt by planting >12500 number of tree species. Since start of construction activities, we have planted approx. 1500 tree saplings. Plantation will be done in monsoon season. Target of 33% plantation will be achieved in 5 years i.e. till year 2021 monsoon. The width of the greenbelt at the plant boundary shall be kept 15 M. No vegetative cover was destroyed/ removed during the establishment and operation phases. Around 8 Acre of Land has been developed as Greenbelt with 4000 nos. Of
		recommended species.
		Photographs are attached as Annexure-V .

xv.	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).	Monthly Ambient Noise Monitoring is carried out in and around plant. 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. Monthly Ambient Noise Quality results are attached as Annexure-I.
xvi	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.	 55% of Internal concrete/ paved roads completed and 45% are under construction. 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 shall be allowed inside the plant. Good housekeeping is maintained within the premises. Photographs of completed roads are attached as Annexure-VI.
xvii	At least 100 KW of solar power to be generated and utilized in addition to stand alone solar power street lights.	Construction of Solar Plant of 3.5 MW capacity (3.0 MW Ground Mount + 0.5 MW Roof Top) started. Power generated will be utilized in street lighting, residential power supply and for utility power supply.
xviii	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.	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. Work Zone monitoring report is attached as Annexure-VII .
xix.	Adequate measures to be adopted to ensure industrial safety. Proper fire detection and protection systems to be provided to control fire and explosion hazards.	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 being purchased and Experienced Fire Fighters are being appointed. Photographs are attached as Annexure-VIII .
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.	At least 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 Year wise and item wise budget to be spent in next 10 years is attached as Annexure-IX . 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.	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. We have obtained Consent to Operate from the WBPCB vide Letter Consent No. CO106518, Memo No. 46-hl-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-hl-CO $-2/17/0016$, Dated 18.01.2018 for 1,00,000 Ton/Month Cement Production(Balance 50% of 2.4 MTPA) Cement productions is attached as Annexure-X .
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.	

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 work permits. Environmental sanitation should be ensured for the workers.	Construction Work completed for 2.4 MTPA Cement plant. Necessary Environmental Sanitation has been provided to workers during operation phase. However, during construction of proposed expansion of Cement Plant along with CPP, kerosene and cooking gas will be supplied to labourers and proper sanitation facilities shall be provided.
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 along with 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). (Pl. refer Annex.XI for details). 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 attached as Annexure-XII .
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 along with 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	Noted and agreed.

	under the provisions of the Environment (Protection) Act, 1986, to ensure implementation of the suggested safeguard measures in a time bound and satisfactory manner.	
x.	A copy of the clearance letter shall be sent by the proponent 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.	Letters to Municipal Corporation and local NGO have been sent 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 , NOx (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

The above stipulations would be enforced along with those	Noted and agreed.
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	
Movement) Rules, 2009, the Public Liability Insurance Act,	
1991, The Environment Impact Assessment Notification 2006	
and their amendments.	

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Taju Kaurchandlen Raju Ramchandran

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



ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers. EIA & Disaster Management Study

ANNEXURE-I

FORMAT NO .: PPC/FM/67

ISSUE NO.: 03

ISSUE Dt.: 01.01.2018 (Rev. No.: 01)

Page 1 of 1

TEST REPORT STACK GAS

ADD	TOMER NAME RESS ATION	: M/s. JSW Cement L Salboni, Paschim M West Bengal Stack #2	CLARKER PROVIDENCE			DATE OF SAMPLI TIME OF SAMPLI REPORT NO. REPORT DATE	25	01
	IPLE ID NO.	: GS/18(01)/01	~ ~ ~		_	TYPE OF SAMPLE		i
A:G		MATION ABOUT STAC				ALYSIS/CHARACTI	the second s	
1	STACK CONNEL	THE REPORT OF THE PARTY OF THE	: Stack #2	-	1	EMISSION DUE TO	3 Grinding (010055
2		CONSTRUCTION	= M.S.		2	FUEL USED	1-	
3	SHAPE OF THE HEIGHT OF THE		: Circular		3	FUEL CONSUMPT	Dev. (110.1)	
.14	a) From Groun		: 55.0		5	CALORIFIC VALUE SULPHUR CONTE		
	bi From Roof L	C (5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	035100		6	ASH CONTENT (1	A CONTRACTOR OF	
5	DIAMETER OF		97E		7	AIR FLOW		
1	a) Top (M)		13.5	1	C:ST	EAM GENERATION	CAPACITY	
	b) Bottom (M)		2.00		2)	RATED	14	
	c) Sampling Po	int (M)	:3.5		6]	RUNNING	4-	
÷.	HEIGHT DF TH	E SAMPLING PORT :		1.1	Load			
	a) From Groun	d Level (M)	: 40,0		a)	RATED	: 100 TPH	
	b) From Lower	Disturbing Zone (M)	1.+		b)	RUNNING	100 TPH (OPC Grinding)
7	WHETHER STA	CK IS PROVIDED WITH	PERMANENT PI	ATFORM	I/LAD	DER: Yes	POLLUTION CONTROL DEVICE :	Bag filter
D. RI	ESULT OF SAMPI	LING		Un	it.	Met	thod of Test (Reference)	Result
1	TEMPERATURE	OF EMISSION		deg	¢	15:11255 (Part	1]:1985 (RA2012) & (Part 3):2008	: 89
2	BAROMETRIC	PRESSURE		mmHg		15:11255 (Part 1):1985 (RA2012) & (Part 3):2008		: 753
3	VELOCITY OF G	AS FLOW		M/Sec		(5:11255 (Part 1):1985 (RA2012) & (Part 3):2008		: 7.73
4	QUANTITY OF	GAS FLOW		Nm ²	m ³ /Hr. (5:11255 (Part 1):1985 (RA2012) & (Part 3):20		1):1985 (RA2012) & (Part 3):2008	: 218381.6
5	CONCENTRATI	ON OF PARTICULATE N	ATTER	mg/h	_	5:11255 (Part	1] 1985 (RA2012) & (Part 3):2008	1:01
ú	PARTICULATE	MATTER NORMALISED	TO 12 % CO;	mg/h	-	IS:11255 (Part	1):1985 (RA2012) & (Part 3):2008	2.200
7	CONCENTRATE	ON OF SULPHER DIOX	DE	mg/h		IS:112	55 (Part 2): 1985 (RA 2014)	1 ++
8	CONCENTRATIO	ON OF NITROGEN DIO	RIDE	mg/h	_	15:112	55 (Part 7):2005 (RA 2017)	244
9	CONCENTRATE	ON OF OXYGEN		96 V		APHA 3 rd Air Analysis Method- 134:2016		19.8
10	CONCENTRATE	ON OF CARBON DIOXI	DE	95 V	/v		Air Analysis Method- 134:2016	: <0.2
11	CONCENTRATE	ON OF CARBON MONO	DXIDE	.%v	Ív.	and the second se	Air Analysis Method- 134:2016	: <0.2

The results relate only to the parameters tested.

howabar Tanmoy Chakrabart

Quality Manager Authorized Signatory

For Pollution And Project Consultants

.....end of report...

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LABORATORY FOR ANALYSIS OF AIR, EFFLUENT, SOLIDWASTE, COAL, ORE. ETC.



ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers, EIA & Disaster Management Study

FORMAT NO.: PPC/FM/68 ISSUE NO.: 03 ISSUE Dt.: 01.01.2018 (Rev No.:01)

Page 1 of 1

TEST REPORT AMBIENT AIR

Addre Type o		a second		engal	Report No. Report Date Sample Id No. Date Sampling	: G/18(01)/03 : 16/01/2018 : GA/18(01)/03 : 09/10-01-2018
SL. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter ₁₀ (as PM ₁₀)	µg/m ³	60.6	100	24 Hours	IS:5182 (Part -23) : 2006 RA 2017
2	Particulate Matter 2.5 (as PM _{2.5})	µg/m ³	32,3	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.15 (Prepared based on CPCB Guidelines)
з	Sulpher dioxides (as SO ₂)	µg/m³	12.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
	Nitrogen dioxides (as NO ₂)	µg/m³	22.0	80	24 Hours	IS:5182 (Part - 6) : 2006 RA 2017
4	Carbon monoxide (as CO)	mg/m ²	0.5	4	24 Hours	APHA (Air Analysis) 3 rd Edn. Method 128:2016

The results relate only to the parameters tested

....end of report.....

horesabash Tanmoy Chakroba

Curlity Maneger Authorised Signatory For Pollution And Project Consultants

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LABORATORY FOR ANALYSIS OF AIR, EFFLUENT, SOLIDWASTE, COAL, ORE. ETC.



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FORMAT NO .: PPC/FM/68

58 ISSUE NO.: 03

3 ISSUE Dt.: 01.01.2018 (Rev No.:01)

Page 1 of 1

TEST REPORT AMBIENT AIR

Addre Type o	ss : Salboni, Pi of Sample : Ambient A	Ceiment Limited, aschim Medinipu dir Colony (Inside A			Report No. Report Date Sample Id No. Date Sampling	: G/18(01)/04 : 16/01/2018 : GA/18(01)/04 : 09/10-01-2018
SI, No,	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 10 (as PM10)	µg/m ³	52.8	100	24 Hours	IS:5182 (Part –23) : 2006 RA 2017
2	Particulate Matter _{2.5} (as PM _{2.5})	µg/m³	30,1	60	24 Hours	In house Method SOP No. SOP/02/02 issue Date 02.04.15 (Prepared based on CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m ³	12.0	80	24 Hours	IS:5182 (Part2) : 2001 RA 2017
	Nitrogen dioxide (as NO ₂)	µg/m³	20.0	80	24 Hours	IS:5182 (Part - 6) ; 2006 RA 2017
4	Carbon monoxide (as CO)	mg/m ³	0.5	4	24 Hours	APHA (Air Analysis) 3 rd Edn. Method 128:2016

The results relate only to the parameters tested

....end of report

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Tanmoy Chakrabart Quality Managor

Authorised Signatory

For Pollution And Project Consultants

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LABORATORY FOR ANALYSIS OF AIR, EFFLUENT, SOLIDWASTE, COAL, ORE. ETC.



ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers, EIA & Disaster Management Study

FORMAT NO .: PPC/FM/68

ISSUE NO.: 03 ISSUE Dt.: 01.01.2018 (Rev No.:01)

Page 1 of 1

TEST REPORT AMBIENT AIR

Addre Type o				engal	Report No. Report Date Sample Id No. Date Sampling	: G/18(01)/05 : 16/01/2018 : GA/18(01)/05 : 10/11-01-2018
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 10 (as PM10)	µg/m³	62.9	100	24 Hours	IS:5182 (Part23) : 2006 RA 2017
2	Particulate Matter _{2.5} (as PM _{2.5})	µg/m³	49.6	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.15 (Prepared based on CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m ³	14.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
	Nitrogen dioxide (as NO ₂)	µg/m³	26.0	80	24 Hours	IS:5182 (Part – 6) : 2006 RA 2017
4	Carbon monoxide (as CO)	mg/m ³	0.48	4	24 Hours	APHA (Air Analysis) 3 ^{re} Edn. Method 128:2016

The results relate only to the parameters tested

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03

ISSUE Dt.: 01.01.2018 (Rev No.:01)

Page 1 of 1

TEST REPORT AMBIENT AIR

Custor	mer Name : M/s. J	SW Cement Li	mited,		Report No.	: G/18(01)/06
Addre	ss : Salbon	i, Paschim Me	dinipur, We	st Bengal	Report Date	: 16/01/2018
Type o	of Sample Ambie	nt Air			Sample Id No.	: GA/18(01)/06
locati	on of Sampling : Near R	ailway siding	(5)		Date Sampling	: 10/11-01-2018
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 10 (as PM30)	µg/m ³	82.4	100	24 Hours	IS:5182 (Part –23) : 2006 RA 2017
2	Particulate Matter _{2.5} (as PM _{2.5})	μg/m ³	50.8	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02:04.15 (Prepared based on CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m ³	15.0	80	24 Hours	IS:5182 (Part –2) : 2001 RA 2017
	Nitrogen dioxide (as NO ₂)	µg/m ⁸	24.0	80	24 Hours	IS:5182 (Part – 6) : 2006 RA 2017
4	Carbon monoxide (as CO)	mg/m ³	0.71	4	24 Hours	APHA (Air Analysis) 3 rd Edn. Method 128:2016

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03

ISSUE Dt.: 01.01.2018 (Rev No.:01)

TEST REPORT

Page 1 of 1

Custo	mer Name : M/s. J5	SW Cement Li	mited,		Report No.	: G/18(01)/07
Addre	ss : Salbon	i, Paschim Me	dinipur, W	est Bengal	Report Date	: 16/01/2018
Type o	of Sample : Amble	nt Air			Date Sampling	: GA/18(01)/07
Locati	on of Sampling : Near G	iodapiasal Vill	age (SE)		Sample Id No.	: 11/12-01-2018
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 10 (as PM10)	µg/m³	78.9	100	24 Hours	IS:5182 (Part -23) : 2006 RA 2017
2	Particulate Matter _{2.5} (as PM _{2.5})	µg/m³	48.3	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.15 (Prepared based or CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m ³	16.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
	Nitrogen dioxide (as NO ₂)	µg/m ³	24.0	80	24 Hours	IS:5182 (Part - 6) : 2006 RA 2017
4	Carbon monoxide (as CO)	mg/m ³	0.6	4	24 Hours	APHA (Air Analysis) 3 rd Edn. Method 128:2016

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FORMAT NO.: PPC/FM/68

ISSUE NO.: 03 ISSUE Dt.: 01.01.2018 (Rev No.:01)

TEST REPORT AMBIENT AIR Page 1 of 1

Addre Type o	ss : Salboni, P of Sample : Ambient /	Cement Lim raschim Med Air nosed CPP Ar	inipur, We	st Bengal	Report No. Report Date Date Sampling Sample Id No.	: G/18(01)/08 : 16/01/2018 : GA/18(01)/08 : 11/12-01-2018
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 10 (as PM10)	µg/m ³	69.3	100	24 HOURS	IS:5182 (Part –23) : 2006 RA 2017
2	Particulate Matter _{2.5} (as PM _{2.5})	µg/m ³	42.5	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.15 (Prepared based on CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m ²	16.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
	Nitrogen dioxide (as NO ₂)	µg/m ³	26.0	80	24 Hours	IS:5182 (Part – 6) : 2006 RA 2017
4	Carbon monoxide (as CO)	mg/m ³	0.58	4	24 Hours	APHA (Air Analysis) 3 rd Edn. Method 128:2016

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Report No. : 6/18(01)/10-12		and the second se	: 16-01-2018				
NG	DISE LEVEL MONITORING						
Customer Name Address	: M/s. ISW Cement Limited, : Salboni, Paschim Medinipur, West Bengal						
Sampling Station	Near Project Office	Staff Colony (Inside Ankur Company)	Near Labour Colon				
Type of Area	Industrial	Industrial	Industrial				
Monitoring Date	09/10-01-2018	09/10-01-2018	10/11-01-2018				
Time (In Hrs.)		Hourly Leg dB(A)	and the second				
6.00-7.00	54.6	50.7	53.3				
7.00-8.00	58.2	52.2	54.4				
8.00-9.00	60.5	52.9	53.7				
9.00+10.00	57.1	54.0	55.5				
10.00-11.00	61.3	54.8	59,1				
11.00-12.00	60.4	58.0	59,8				
12.00-13.00	62.5	61.9	66.7				
13.00-14.00	62.1	62.9	62.4				
14.00-15.00	63.2	64.2	63.2				
15.00-16:00	64.4	66,1	65.4				
16.00-17.00	64.9	60.1	63.8				
17.08-18.00	65.1	61.3	62.0				
18.00-19.00	66.9	64.0	62.0				
19.00-20.00	62.1	61,7	61.0				
20.00-21.00	59.3	61.)	62.0				
21.00-22.00	59.5	55.6	61.9				
22.00-23.00	57.1	53.7	53.0				
23.00-0.00	54.6	55.2	53,4				
0.00-1.00	\$4.7	52.2	51.9				
1.00-2.00	51.0	51,7	49.2				
2.00-3.00	50.4	51.9	46,4				
3.00-4.00	51.4	54.8	46.8				
4.00-5.00	47.2	45.8	.50.2				
5.00-6.00	48.3	49.0	50.5				
Leg dB(A) Day Time	62.4	61.0	61.9				
Leg dB(A) Night Time	53.0	52.6	50.8				

onitariu to			
Day time Limit (06:00 A.M10:00 P.M.)	75 dB(A)	75 dB(A)	75 dB(A)
Night Time Limit (10:00 P.M06:00 A.M.)	70 dB(A)	70 dB(A)	70 dB(A)

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Report No. : G/18(01)/13-15 NOISE LEV	EL MONITORING RE	and the second se	16-01-2018				
Eustomer Name Address	: M/s. JSW Cement Limited, : Salboni, Paschim Medinipur, West Bengal						
Sampling Station	Railway Siding Area	Near Godaplasal Village	Near Propose CPP Area				
Type of Area	industrial	Industrial	Industrial				
Monitoring Date	10/11-01-2018	11/12-01-2018	11/12-01-2018				
Time (In Hrs.)	Concertaines and a	Hourly Leg dB(A)					
6.00-7.00	47.1	54.8	40,7				
7.00-8.00	49.2	56.0	41.2				
8.00-9.00	49.9	54.8	42.2				
9.00-10.00	52.4	56.5	42.7				
10.00-11.00	\$3.8	61.1	43.5				
11.00-12.00	62.5	60.9	48.5				
12.00-13.00	65.2	63.1	51.1				
13.00-14.00	64,9	62.6	52.3				
14.00-15.00	63.3	65.2	54.9				
15.00-16.00	56.2	65.0	59.1				
16.00-17.00	60.3	59.1	60.2				
17.00-18.00	58.1	55.2	61.2				
18.00-19.00	56.7	53.9	63.3				
19.00-20.00	55.1	54.7	58.7				
20.00-21.00	58.0	53.4	53.5				
21.00-22.00	54.2	52.1	52.6				
22.00-23.00	53.5	54.2	50.0				
23.00-0.00	54,9	48.3	48.9				
0,00-1.00	49.9	47.4	47.3				
1.00-2.00	48.4	51.5	45.8				
2.00-3.00	47.0	49.6	46.3				
3.00-4.00	47.4	49.3	43.7				
4.00-5.00	48,4	49.3	42.3				
5.00-6.00	49.0	51.2	45.1				
Leg dB(A) Day Time	59.7	60.1	56.5				
Leg dB(A) Night Time	50.8	50.6	46.8				
he Applicant shall take adequate measures fo ts own sources within premises to conform to	r control of noise le	vels from					
Day time Limit (05:00 A.M10:00 P.M.)	75 dB(A)	75 d8(A)	75 dB(A)				
Night Time Limit (10:00 P.M06:00 A.M.)	70 dB(A)	70 dB(A)	70 dB(A)				

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Format	No. PPC/PM/71 Issue No. 03	Issue Dt.	01.01.2018 (Nev.No.01) TEST REPORT Water Sample		Page 1 of 1	
Address Type of	Sample : Ground Water g Location : Bore Well No. 17	Medinipur, W	wut Bengal	Report No. Report Data Sample Id N Test Start D Test End D	in. Xote ste	: GW/58/05 /6 : 19/01/2018 : GW/38/03 /6 : 13/01/2018 : 19/01/2018
9.			Standard against which	000000	500-2012	
No.	Parameter test	Uwit	test are performed	Desirable Limit	Permissible Limit	Result
1	Temperature (Collection Time)	*0	15: 3025 (Part-9) 1984 RA 2002	Not	specified	14.0
2	Turbidity	NTL	A711A 23rd 5dn. 2017. 2130 8	1	5	3.6
: 3	pH value	-	APHA 23rd Edn. 2017. 4500 H+B	6.5-85	No Relaxation	7,46
4	Total Surpended Solids (as TSS)	mg/l	APHA 23rd Edit 2017, 2340 D	Not	specified	12.5
3	Total Dissolved Solids (as TD5)	mg/l	APHA 23rd Edn. 2017, 2540 C	500	2000	219.0
6	3p. Conductivity at 25°C	u5/cm	APHA 23rd Edn. 2017, 2510 8	Not	spacified	360.0
7	Calcium Handhuss: (as CaCO ₃)	mg/i	15 - 3025 (Part-40):1991 RA 2014	Not	specified	85.5
.0	Bio Chemical Oxygen Demand (BOD)	mg/l	IS: 3025 (Part-44) 1993 RA 2014			<1.0
- Ø	Chamical Oxygen Demand (COD)	mg/l	APHA 73rd Edn. 5320 8-2017		00	8.0
10	Dir & Grease	nigit	APHA 33rd Edv. 5220 8:2017	(10)	1.00	+1.0
- 41	Total Hardness (as CaCO ₃)	Nam	15:3023(Part-21) RA 2014	200	500	145.5
17	Mercury (at Hg)	mauli	APartH4 23rd Eds. 2017 31128	0.001	No Relaxation	<0.0000
13	Load (4s Pb)	mul	APartnA 23rd Edn. 2017. 31318	0.01	No Relaxation	+0.005
16	tron (as Fe)	mgil	APartilA 33rd Edn. 2017. 31318	0.3	No Relaxation	1.16
35	Copper las Cul	mg/t	APartHA 23rd Edn. 2017. 31118	0.05	1.5	<0.01
16	Tertal Chromium (as Cr)	mg/l	APart IIA 23rd Ede, 2017. 31118	0.05	No Relaxation	<0.01
17	Zine (as Zn)	rigit -	APartHA 23rd Edn. 2017. 31118	5	25	0,10
38	Arsenic (as As)	Nam:	APartHA 23rd Edn. 2017. 3114C	0.01	0.05	+0.01
19	Cadmium (as Cd)	figm	APartilA 33rd Edn. 2017. 31118	0.003	No Relaxation	<0.001
28	Nickel (as NI)	mgit	APart HA 23rd Edn. 2017. 31118	0.02	No Relevation	×0.005
21	Manganese (as Mn)	mg/l	APartHA J3rd Edn. 2017, 3111B	0.1	0.3	0.05
77	Huoride (as F)	men	APartHA 25rd Edn. 2017. 4500 F.D.	1.	1.5	0.40
23	Drioride (as CI)	mg/l	APartsiA 22rd Edt. 2017, 4500 CFB	256	1000	12.4
24	Sulphate (as SO ₈)	mg/1	15:3025 (Part-24) RA 2014	200	400	5.0
.25	Suffite (as SO ₁)	mg/i	IS:3025 (Part-24) RA 2014	. +		<0.005
-26	Nicrate (as NO ₃)	mgil	APartHA 23rd Edn. 2017. 4500NDg-0	45	No Relaxation	0.30
27	Nitrite (as NO ₂)	Page 1	APartHA 23rd Edin, 2017, 4500NO ₂ -8	Not	specified	<0.01
28	Phenoist Compound((a) C ₄ H ₂ OH)	mg/l	APartikA 23rd Edn. 2017:5530 D	0.001	0.002	=0.001

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Format	No. PPC/FM/71 Issue No. 63	Issue	Dt. 01.01.2017 (Rev. No.00) TEST REPORT Water Sample		1/1	
Address Type of Samplis	ar Nanto M/s. JSW Cement s Salboni, Paschim I Sample Ground Water ng Location Bore Well No. 2 N no Date ±13/03/2018	Medinipur,		Report No Report Dat Sample Id Test Start Test. End 1	te No. Date	GW/18(01)/6 19/01/2018 GW/18(01)/6 13/01/2018 19/01/2018
		K.	w menounana		ns as per	
9. No.	Faranseter test	Unit	Standard against which test are performed	Ursit	foo-2013 Permissible Umit	Result
1	Temperature (Collection Time)	T	15: 3025 (Part-9) 1984 RA 2002	Nut	specifical	13.9
2	Turbidity	NTU	APRA 23rd Edm 2017. 2130 B	4	5	1.0
3	pH value		APHA 23rd Edn. 2017, 4500 IHH	6.5-8.5	Ro Relaxation	6.86
4	Total Suspended Solids (es T55)	(ig))	APHA 23rd Edn 2017: 2540 D	Nat	specified	<2.5
5	Tatal Disolved Solies (as 705)	mg/1	APHA 23rd 6dn 2017 2540 C	300	1000	105.0
ii.	Sp. Conductivity at 25°C	a5/cm	APHA 23rd Edn. 2017. 2510 B	Net	specified	180.0
	Calcium Hardness (as CaCO ₂)	ing/l	15 : 3025 (Part-40):1991 RA 2014	Not	specified	45.1
	Bio-Osemical Oxygen Demand (BDD)	11/311	IS: 3025 (Pars-44) 1993 /04 2054		-	<1.0
	Chemical Drygen Demand (CDD)	mg/l.	AFHA 23rd Edn. 5220 8:2017	-	-	3.5
10	OI & Grand	mg/1	APHA 23rd Edn. 5220 8:2017	-		<1.0
11	Total Hordness (as CaCD _a)	mg/l	(5:3025(Part-21) RA 2014	200	680	75.2
12	Shercury (as Hg)	mg/l	APartiké 23rd Edn. 2017. 31128	0.001	No Relasation	40.002
11	Load (los Ph)	ngn	APartHA 23rd Eds. 2017. 31118	0.01	No Televation	<0.005
14	urise jas Fej	mg/l	APartna 23rd Edn. 2017. 31118	6.0	No Relaxation	0.19
15	Copper (in Cu)	ng/i	APartHA 23rd Edn. 2017. 311138	0.05	1.5	+0.01
36	Total Chromium (as Cr)	mg/l	APartisA 23rd 6dn. 2017. 31118	0.05	No Relaxation	<0.01
17	Zmc Jas Zn)	(ng/l	APartsiA 23rd Siln, 2017, 31118	. 5	15	0.05
18	Artestic (at Al)	mg/l	Айалсна 23né 5én. 2017. 31140	0.01	0.05	<0.01
19	Cademum (as Cd)	figm	APartHA 23rd Een. 2017. 31118	0.003	No Relaction	<0.001
20	Nickol (ac.N/)	mg/1	APartilA 23rd Edn. 2017. 31118	0.02	No Relaxation	+0.005
21	Mangamese (as Mri)	mg/1	APartHA 23rd Edn: 2017. 31118	0.1	0.5	0.08
22	Fluoride (as #)	ment	APartHA 23rd Edn. 2017, 4500 F.D.	1	1.5	0.35
25	Chloride (as O)	man	APartHA 23rd Edn. 2017. 4950 CLB	250	1000	8.4
24	Sciphete (a: 50 ₄)	ment	IS:3025 (Part-24) RA 2014	200	400	2.0
25	Suffice (as 50,)	eig/1	(5:3025 (Part-24) RA 2014	-	-	+0.005
-26	Nitrate (as NO ₂)	mg/t	APartHA 23rd Edn. 3017. 4500NO ₂ -0	45	No Relaxation	0.10
21	Nume (as NO ₂)	mgð	APartriA 23/d Eds. 2017. 4500NO ₂ -8	Not	specified	<0.01
	Hierolic Compounds(as CeH ₂ OH)	ma/	APartisA 25rd Edn. 2017:5530 D	0.001	0.002	-0.001

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ronnat	No. PPC/FM/71 Issue No. 03		ue Dt. 01.01.2017 (Rev.No.00) TEST REPORT Water Sample		Page 1	1
Addrea Type of Samplin	er Name : M/s. ISW Cemen a ISalboni, Pauthim Sample : Ground Water ng Location : Bore Well No. 1 ng Date : 11/03/2018	Medinipur		Report No Report Dat Sample Id Test Start Test End I	te No. Date	GW/18(01)/6 19/01/2018 GW/18(01)/6 13/01/2018 19/01/2018
vam			annar annar annar		ns as per 1500-2012	
91. NO.	Parameter text	Unit	Standard against which test are performed	Desirable	Permissible	Reputt
Ť-	Temperature (Collection Time)	+c.	45: 3025 (Part-5) 1984 RA 2002	Not	specified	14.1
T	Turpidity	NTU	APHA 23rd Edn. 2017, 2130 B	1	5	3.0
3	pitvalue	-	APHA 23rd Edn. 2017, 4500 H+8	6.5-8.5	No Relaxation	6.9
4	Total Suspended Solids (as 750)	196/3	APHA 23rd Edn.2017.2540 D	Hiat	specified	-9.5
5.	Total Displyed Solida (as TOS)	mg/l	APHA 23rd Edm. 2017, 2540 C	300	2000	126.0
6	Sp. Conductivity at 25°C	us/cm	AP-98, 23rd Edn. 2017, 2510 B	Not	specified	220.0
7	Calcium Hanthess (as CaCO ₂)	mp/l	15 : 3025 (Part-40): 1993 RA 2014	Mot	Not specified	
	Bio-Chemical Geogen Demand (BDD)	mg/l	5: 3025 (Part-44) 1995 RA 2014	+	<u>.</u>	<1.0
9:	Chemical Divigen Demand (COO)	mg/l	APHA 23rd Edn. 5220 8:2017			9,9
10	Oil & Grasse	ngi	APNA 23rd Edn. 5225 8:2017	-		9.10
11	Total Handmess (as CaCO ₂)	mild	(5:3025(Part-21) RA 2014	200	600	81.8
12	Mensury (as Hg)	mg/l	APartH4 23rd Edix 2017. 11129	0.001	No Relevation	+0.002
18	Land (as Pb)	ng/l	APartriA 25rd Edn. 2017. 51118	0.01	No Relaxation	-10.01
34	Iran (as Fe)	mg/l	APartHA 23rd Edin. 2017. 31318	0.3	No Relexation	0.83
15	Copper las Cs0	man	AParti-M. 23rd Edn. 2017. 31118	0.05	1.5	<0.01
16	Total Chromiem (as Cr)	mg/i	AParti-M.23rd Edo. 2017. 31318	0.03	No Relaxation	<0.01
17	Zine (as Zni)	mg/l	APartHA 23rd Edin, 2017, 31118	5	15	0.07
18	Arsens (as Ai)	mgA	AParts 4A 23rd Edn. 2017, 5134C	0.01	0.05	<0.01
19	Cadmium (as Cd)	mg/l	APpr0HA 23rd Edb. 2017, 31118	0.008	No followid on	+0.001
20	Nickel (as Ni)	mg/l	APartHA 25rd Edn. 2017. 31118	0.02	No Relaxation	48.005
21.	Mangamme (as Me)	mgA	APartHA 23rd Edn. 2017. 31118	0.1	0.3	0.05
23	Fluoride (as I)	mul	APartHA 23rd Edn 2017, 4500 F.D.	4	15	.32
23	Chloride (as 61)	ngA	APartHA 23rd Edn. 2017. 4500 D 8	250	1000	10.1
28-	Sulphate (as SO)	mg/l	rs 3025 (Part-24) R4 2014	200	400	1.8
-75	Suffice (au SO ₂)	milit	(5:9025 (Part-24) RA 2034	-		+0.005
26	Nitrate (as NO ₃)	ng/i	APartHA 23rd Edv. 2017. 4500WOJ-D	45	No Relaxation	0.08
22.	Nitrine (as NO ₂)	eng/1	AFartisk 23rd Edn. 2017. 4500M0g/8	Not	specified	<0.01
28	Phenolic Compounds(as C ₂ H ₂ OH)	mp/l	APartHA 23rd Edn. 2017:5530 D	0.001	0.002	<0.001

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ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers. EIA & Disaster Management Study

FORMAT NO.: PPC/FM/67 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev. No.: 01 Rev. Dt. 01/01/2018)

Page 1 of 1

TEST REPORT STACK GAS

LOC	TOMER NAME : M/s. JSW Coment DRESS : Salboni, Paschim M West Bengal ATION : Stack #2			DATE OF SAMPLING TIME OF SAMPLING REPORT NO. REPORT DATE	: 17.03.2018 : 12:30 P.M. : G/18(03)/0 : 29/03/2010	9
	MPLE ID NO. : G5/18(03)/09			TYPE OF SAMPLE	: Stack Gas	
1 2 3 4 5 6	SENERAL INFORMATION ABOUT STAT STACK CONNECTED TO MATERIAL OF CONSTRUCTION SHAPE OF THE DUCT HEIGHT OF THE DUCT HEIGHT OF THE STACK : a) From Ground Level (M) b) From Roof Level DIAMETER OF THE STACK : a) Top (M) b) Bottom (M) c) Sampling Point (M) HEIGHT OF THE SAMPLING PORT : a) from Ground Level (M) b) From Lower Disturbing Zone (M)	3 : Stack #2 : M.S. : Gircular : 55.0 : : 3.5 : : 3.5 : 40.0	1 2 3 4 5 6 7	IALYSIS/CHARACTERISTICS OF FUEL EMISSION DUE TO FUEL USED FUEL CONSUMPTION CALORIFIC VALUE (K-Cal/kg) SULPHUR CONTENT (% by wt) ASH CONTENT (% by wt) AIR FLOW EAM GENERATION CAPACITY BATED RUNNING RATED RUNNING	: Grinding pr 1	
7	WHETHER STACK IS PROVIDED WIT				100 TPH (OR INTROL DEVICE : BI	PC Grinding)
), RI	ESULT OF SAMPLING		Unit			Result
1	TEMPERATURE OF EMISSION		deg C	IS:11255 (Part 1):1985 (RA2012) & (Part 3):2013	: 93
2	BAROMETRIC PRESSURE		mmHg	IS:11255 (Part 1):1985 (RA2012	Contraction of the second s	1757
				The second is and all shared a finite track		
3	VELOCITY OF GAS FLOW		M/Sec	and the second se		:71
3	VELOCITY OF GAS FLOW QUANTITY OF GAS FLOW			(\$11255 (Part 1):1985 (RA2012	& (Part 3):2013	:7.1
-		VATTER	M/Sec	8:11255 (Part 1):1985 (RA2012 35:10255 (Part 1):1985 (RA2012) & (Part 3):2013) & (Part 3):2013	: 199567 3
4	QUANTITY OF GAS FLOW	State of the second second	M/Sec Nm ² /Hr.	15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012	& (Part 3):2013 & (Part 3):2013 & (Part 3):2013	199567 3 : 14.5
4	QUANTITY OF GAS FLOW CONCENTRATION OF PARTICULATE	0 TO 12 % CO ₂	M/Sec Nm ³ /Hr. mg/Nm ³	15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012) & (Part 3):2013) & (Part 3):2013) & (Part 3):2013) & (Part 3):2013	: 199567 3 : 14.5 : N.A.
4 5 6	QUANTITY OF GAS FLOW CONCENTRATION OF PARTICULATE PARTICULATE MATTER NORMALISED	0 TO 12 % CO ₁ IDE	M/Sec Nm ³ /Hr. mg/Nm ³ mg/Nm ³	15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012	& (Part 3):2013 & (Part 3):2013 & (Part 3):2013 & (Part 3):2013 & (Part 3):2013 RA 2014)	: 19956" : : 14.5 : N.A. : N.A.
4 5 6 7	QUANTITY OF GAS FLOW CONCENTRATION OF PARTICULATE PARTICULATE MATTER NORMALISED CONCENTRATION OF SULPHER DIOX	0 TO 12 % CO ₁ IDE	M/Sec Nm ² /Hr. mg/Nm ² mg/Nm ²	15:11255 (Part 1):1985 (RA2012 15:11255 (Part 2):1985 (15:11255 (Part 7):2005 (& (Part 3):2013 & (Part 3):2013 & (Part 3):2013 & (Part 3):2013 & (Part 3):2013 RA 2014] RA 2014]	: 19956" : : 14.5 : N.A. : N.A. : N.A.
4 5 6 7 8	QUANTITY OF GAS FLOW CONCENTRATION OF PARTICULATE PARTICULATE MATTER NORMALISED CONCENTRATION OF SULPHER DIOX CONCENTRATION OF NITROGEN DIO	D TO 12 % CO ₁ IDE XIDE	M/Sec Nm ² /Hr. mg/Nm ³ mg/Nm ³ mg/Nm ³	15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012 15:11255 (Part 1):1985 (RA2012	8 (Part 3):2013 8 (Part 3):2014 8 (Part 3):2014 8 (Part 3):2013 8 (Part 3):2014 8 (Part 3):2014	: 19956" : : 14.5 : N.A. : N.A.

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FORMAT NO.: PPC/FM/67 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev. No.: 01 Rev. Dt. 01/01/2018)

Page 1 of 1

TEST REPORT STACK GAS

ADD	TOMER NAME RESS	: Salboni, Paschim M West Bengal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			DATE OF SAMPL TIME OF SAMPL REPORT NO.	10.00	: 17.03.2018 : 2.40 P.M : G/18(03)/0	8
01.73	ATION	Stack #1				REPORT DATE		29/03/2018	6
and statements	IPLE ID NO.	:GS/18(03)/08				TYPE OF SAMPLI		Stack Gas	
4:6		MATION ABOUT STACK	A CALOR HARD	1		and the most convertence of the first	ERISTICS OF FUEL		
1	STACK CONNI	CONSTRUCTION	: Stack #1		1	EMISSION DUE T	0	Grinding pr	20255
2	SHAPE OF TH		: M.S. : Circular		2	FUEL USED FUEL CONSUMP	THEN	1	
4	HEIGHT OF TH	THEY CALL AND			4	CALDRIFIC VALU		1-	
12	a) From Grou	CONTRACTOR OF A	: 55.0		5	SULPHUR CONTE		1-	
	b) From Roof	Level	1.00		6	ASH CONTENT (1.14	
5	DIAMETER OF	THE STACK :			7	AIR FLOW		24	
	a) Top (M)		:3.5	1	C:51	EAM GENERATION	N CAPACITY	28/10/2007	
	b) Bottom (M		F		al	RATED		1214	
	c) Sampling P	The second s	: 3.5		b)	RUNNING		1.1-	
6		E SAMPLING PORT :		6	load				
	a) From Grou		: 40.0		리	RATED		: 100 TPH	
7		r Disturbing Zone (M) ACK IS PROVIDED WITH	DEDMAMENT D	ATEGRAA	(d	RUNNING	BOULTION CO.	: 200 TPH (O) NTROL DEVICE : B:	
	SULT OF SAME		PERMISSION P	Unit		Actor in the second sec	thod of Test (Refer	second states and the second state of the lattice of the second states o	Result
1	TEMPERATUR	E OF EMISSION		deg	_		t 1):1985 (RA2012)		: 92
2	BAROMETRIC	PRESSURE		mmP			11]:1985 (RA2012)		: 757
3	VELOCITY OF	GAS FLOW		M/Se	ic.	(5:11255 (Part 1):1985 (RA2012) & (Part 3):2013		6.7	
4	QUANTITY OF	GAS FLOW		Nm ³ 7)	Hr.	(5:11255 (Part 1):1985 (RA2012) & (Part 3):2013		& (Part 3):2013	188839.43
5	CONCENTRAT	ION OF PARTICULATE N	ATTER	mg/N	m³	\$ 11255 (Par	t 1):1985 (RA2012)	& (Part 3):2013	12.0
б.	PARTICULATE	MATTER NORMALISED	TO 12 % CO2	mg/N	m'	(\$:11255 (Par	t 1):1985 (RA2012)	& (Part 3):2013	N.A.
7	CONCENTRAT	ION OF SULPHER DIOXI	DE	mg/N	m ^a	15:312	255 (Part 2):1985 (R	(A 2014)	:NA
8	CONCENTRAT	ION OF NITROGEN DIO	CIDE	mg/N	m³	15:312	255 (Part 7):2005 (R	(A 2017)	:NA
9	CONCENTRAT	ION OF OXYGEN		% v/	v	APHA :	3 ^{re} Air Analysis Met	hod-134	: 20.4
10	CONCENTRAT	ION OF CARBON DIGXI)E	3% v/	¥.	дрна :	3 ^{re} Air Analysis Met	hod-134	:<0.2
11	CONCENTRAT	ION OF CARBON MONC	XIDE	35 v/	¥	APHA	3 ^{re} Air Analysis Met	hod- 134	: <0.2
har	ourume colore of	by to the parameters te	and a second second		-		and of re		

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev No.:01 Rev. Dt. 01/01/2018) Page 1 of 1

Addre Type	mer Name : M/s. JSW Cem 255 : Salboni, Pasch of Sample : Ambient Air ion of Sampling : Project Office	im Medinipu	r, West Benga		Report No. Report Date Sample Id No. Date Sampling	: G/18(03)/02 : 29/03/2018 : GA/18(03)/02 :15/16.03.2018
	Average Temperature (°C): 34			al Conditions midity (%): 75		Pressure (mm/Hg): 759
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 30 (as PM ₁₀)	µg/m ¹	61.0	100	24 Hours	IS:5182 (Part23) : 2006 RA 2017
2	Particulate Matter 25 (as PM ₂₅)	µg/m³	30.2	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.15 (Prepared based or CPC8 Guidelines)
3	Sulpher dioxides (as SD ₂)	µg/m³	8.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
4	Nitrogen dioxides (as NO ₂)	µg/m ⁸	24.0	80	24 Hours	15:5182 (Part – 6) : 2006 RA 2017
5	Carbon monoxide (as CO)	mg/m ¹	0,5	4	24 Hours	APHA (Air Analysis) 3 rd Edition Method 128

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev No.:01 Rev. Dt. 01/01/2018) Page 1 of 1

Addre Type (mer Name : M/s. JSW Cen ISS : Salboni, Pasci of Sample : Ambient Air Ion of Sampling : Near Staff Co	him Medinipu	ur, West Be		Report No. Report Date Sample Id No. Date Sampling	: G/18(03)/03 : 29/03/2018 : GA/18(03)/03 :15/16.03.2018
	-		0.0000000000000000000000000000000000000	ntal Conditio	The second second second	anna an Nanna a
-	Average Temperature (°C): 34	Average	Relative H	lumidity (%)	: 75 Barometric	Pressure (mm/Hg): 759
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter ₁₀ (as PM ₁₀)	µg/m³	52.0	100	24 Hours	IS:5182 (Part -23) : 2006 RA 2017
2	Particulate Matter ₂₅ (as PM _{2.5})	µg/m ^a	30.3	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.15 (Prepared based on CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m ^a	11.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
4	Nitrogen dioxide (as NO ₂)	µg/m³	20.0	80	24 Hours	IS:5182 (Part - 6) : 2006 RA 2017
5	Carbon monoxide (as CO)	mg/m ³	0.5	4	24 Hours	APHA (Air Analysis) 3 ¹⁶ Edition Method 128

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev No.:01 Rev. Dt. 01/01/2018) Page 1 of 1

Addre Type (mer Name : M/s. J5W Cen ss : Salboni, Pasch of Sample : Ambient Air on of Sampling : Labour Colony	im Medinip	engal	Report No. Report Date Sample Id No. Date Sampling	: G/18(03)/04 : 29/03/2018 : GA/18(03)/04 :16/17.03.2018	
	Average Temperature ("C): 35			ntal Conditi Iumidity (%)	205	c Pressure (mm/Hg): 759
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 10 (as PM ₁₀)	µg/m ^a	58:0	100	24 Hours	IS:5182 (Part23) : 2006 RA 2017
2	Particulate Matter ₂₅ (as PM ₂₅)	µg/m [®]	45.0	60	24 Hours	In house Method SOP No. SOP/02/02 issue Date 02.04.15 (Prepared based or CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m³	10.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
4	Nitrogen dioxide (as NO ₂)	µg/m ^a	22.0	80	24 Hours	IS:5182 (Part - 6) : 2006 RA 2017
5	Carbon monoxide (as CO)	mg/m ⁸	0.4	4	24 Hours	APHA (Air Analysis) 3 rd Edition Method 128

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev No.:01 Rev. Dt. 01/01/2018) Page 1 of 1

AMBIENT AIR

Addre Type (ss : Salbon of Sample : Ambie	SW Cement Limit i, Paschim Medin nt Air ailway Siding (S)		Report No. Report Date Sample Id No. Date Sampling	: G/18(03)/05 ; 29/03/2018 : GA/18(03)/05 ;16/17.03.2018	
	Average Temperature ('C): 34 Aver	11-	ntal Condition Humidity (%):	-	Pressure (mm/Hg): 759
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 10 (as PM ₂₀)	µg/m³	78.0	100	24 Hours	IS:5182 (Part -23) : 2005 RA 2017
Z	Particulate Matter ₂₅ (as PM ₂₅)	µg/m³	47.0	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.15 (Prepared based or CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	μg/m ³	12.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
4	Nitrogen dioxide (as NO ₂)	μg/m ³	24.0	80	24 Hours	IS:5182 (Part - 6) : 2006 RA 2017
5	Carbon monoxide (as CO)	mg/m ³	0.6	4	24 Hours	APHA (Air Analysis) 3 rd Edition Method 128

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev No.:01 Rev. Dt. 01/01/2018) Page 1 of 1

Addre Type o	ss : Salboni, P of Sample : Ambient	Cement Limi Paschim Medi Air Dosed CPP Ar	inipur, West	Bengal	Report No. Report Date Date Sampling Sample Id No.	: G/18(03)/06 : 29/03/2018 : GA/18(03)/06 : 18/19.03.2018
	Average Temperature ("C): 34 Ave		mental Condi ve Humidity (and the second s	ric Pressure (mm/Hg): 759
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods
1	Particulate Matter 30 (as PM30)	µg/m³	68.0	100	24 Hours	IS:5182 (Part -23) : 2006 RA 2017
2	Particulate Matter $_{25}$ (as PM_{25})	µg/m³	42.0	60	24 Hours	In house Method SOP No. SOP/02/02 issue Date 02.04.19 (Prepared based on CPCB Guidelines)
3	Sulpher dioxide (as SO ₂)	µg/m³	12.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017
4	Nitrogen dioxide (as NO ₂)	µg/m ³	22.0	80	24 Hours	IS:5182 (Part - 6) : 2006 RA 2017
5	Carbon monoxide (as CO)	mg/m ^s	0.50	4	24 Hours	APHA (Air Analysis) 3 rd Edition Method 128

TEST REPORT AMBIENT AIR

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FORMAT NO.: PPC/FM/68 ISSUE NO.: 03 ISSUE Dt.: 01/01/2017 (Rev No.:01 Rev. Dt. 01/01/2018) Page 1 of 1

TEST REPORT AMBIENT AIR

Addre Type o	ss : Salb of Sample : Amb	JSW Cement Li oni, Paschim M ient Air Godapiasal Vil	edinipur, W lage (SE)		Report No. Report Date Date Sampling Sample Id No.	: G/18(03)/07 : 29/03/2018 : GA/18(03)/07 : 17/18.03.2018	
	Average Temperature	(°C): 33 Av		onmental Con Itive Humidit	NUMBER STREET	etric Pressure (mm/Hg): 759	
SI. No.	Parameters	Unit	Result	Standard	Time Weighted Average	Standard Ref. Methods	
1	Particulate Matter 10 (as PM ₁₀)	µg/m²	78.0	100	24 Hours	IS-5182 (Part23) : 2006 RA 2017	
2	Particulate Matter _{2.5} (as PM _{2.5})	11mlan ³	45.5	60	24 Hours	In house Method SOP No. SOP/02/02 Issue Date 02.04.1 (Prepared based on CPCB Guidelines)	
3	Sulpher dioxide (as SO ₂)	µg/m³	16.0	80	24 Hours	IS:5182 (Part -2) : 2001 RA 2017	
4	Nitrogen dioxide (as NO ₂)	µg/m³	24.0	80	24 Hours	IS:5182 (Part - 6) : 2006 RA 2017	
5	Carbon monoxide (as CO)	mg/m ³	0.69	4	24 Hours	APHA (Air Analysis) 3 rd Edition Method 128	

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Format	No. PPC/FM/71 Issue No. C3	Issue Dr.	01/01/2017 (Rev. No.01 Rev. Dt. 01/0 TEST REPORT Water Sample	1/2018)	71	nge.1of1
Addres Type of	ar Name : M/L. ISW Cement a : Salboni, Paschim t / Sample : Ground Water ng Location : Bore Well No. 1 No.	Aeclolpur, W	lest Bongal	Report No. Report Date Sample Id No. Sampling Date Test Start Date Test End Date		: GW/18(03)/85 ; 29/03/2018 ; GW/18(03)/06 ; 16/03/2018 ; 22/03/2018 ; 29/03/2018
SI. ND.	Parameter test	Unit	Standard against which	Nor (Sci.)	Repuit	
			test are performed	Desirable	Permissible Limit	
1	Temperature (Collection Time)	°C	15: 3025 (Part-9) 1984 RA 2002	Not	specified	23.0
2	Turbidity	NTU	APHA 23rd Edn. 2017, 2130 B	1	5	9.0
3	pH value	+	APHA 23rd Eds. 2017. 4500 H+B	6.5=B.5	No Relaxation	7.32
4	Fotal Suspended Solids (as TSS)	mg/1	APHA 23rd Eds.2017. 2540 D	Not	specified	2.50
5	Fotal Displived Solids (an TDS)	mg/l	APHA 23rd Edn. 2017. 2540 C	500	2000	210.0
6	Sp. Conductivity at 25°C	µ\$/tm	APHA 23rd Edn. 2017, 2510 8	Not	specified	440.0
1	Calcium Hardness (as CaCO ₃)	mg/l	15 : 3025 (Part-40):1991 RA 2014	Not	specified	91.60
10	Bio-Chemical Oxygen Demand (BOD)	mg/1	(5-3025 (Part-44) 1993 RA 2014	- 44	-	<1.0
9	Chemical Oxygen Demand (COD)	mg/l	APHA 23 ¹⁴ Edn. 5220 8:2017	-	-	4.20
30	Gi & Grease	mg/l	АРНА 13 ¹⁸ Edv. 5210 8:2017	44	-	<1.0
11	Total Handness (as CaCO _p)	ng/l	15-3025 (Part-21) RA 2014	300	600	138.57
37	Mercury (as Hg)	ng/i	АРНА 23 ¹⁴ Eds. 2017. 31128	0.001	No Relaxation	-0.0002
13	Litad (as Pb)	ng/l	APHA 23 rd Edn. 2017, 31118	0.01	No figlaxation	+0.005
14	Iron (as Fe)	me/l	APHA 25" Edn. 2017. 31118	0.3	No Relaxation	2.20
15	Copper (as Cu)	mg/1	APHA 23 rd Edn. 2017. 31118	0.05	1.5	<0.01
18	Total Chromium (as Cr)	mg/l	APHA 23 rd Ede, 2017, 31118	0.05	No Relaxation	+0.01
17	Zinc (as Zn)	mg/l	APHA 25" Eda, 2017, 31118	5	15	0.15
18	Arsenic (as As)	mg/l	AP60.23" Eds. 2017.3114C	0.01	0.05	<0.01
19	Cadmium (as Cd)	mg/l	APHA 23" Eds. 3017.31118	0.003	No Relevation	<0.001
20	Nickel (as Ni)	mg/l	APHA 23" Edn. 2017. 31118	0.02	No Relaxation	<0.005
21	Manganese (as Mo)	ing/l	APHA 23" Edn. 2017. 31118	0.1	0.3	0.070
22	Fluoride (as F)	mg/l	APHA 23 ⁴⁴ Edn. 2017, 4500 F.D.	3	15	0.35
23	Chloride (as CQ	ng/t	APHA 23 ⁴⁸ Edn. 2017. 4500 Cl B	250	1000	15-68
24	Sulphate (as SO ₄)	mg/l	(5:3025 (Part-24) RA 2014	200	400	6.0
25	Suffite (as SO ₃)	mg/t.	(\$:3025 (Part-24) RA 2014	-	-	×0.005
26	Nitrate (as NO ₄)	mg/l	APHA 23" Edn. 2037. 4500NO,-D	45	No Relevation	0.25
27	Nitrite (as NO ₃)	mg/l	APHA 23 Cdn. 2017. 4500NOT B	Not	specified	<0.01
28	Phenolic Compounds(as C ₄ H ₂ OH)	mg/l	APHA 23 ¹⁶ Edn. 2017:5530 D	0.001	0.002	40.001
And in case of the local division of the loc	the second se	and the second s	the second se	NAME OF TAXABLE PARTY.	And and a second se	A REAL PROPERTY AND ADDRESS OF TAXABLE PARTY.

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ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers. EIA & Disaster Management Study

Format	No. PPC/FM/71 Itsue No. 03	Issue Dt. 6	1/01/2037 (Rev. No.01 Rev. Dt. 01/01) TEST REPORT Water Sample	/2018}	Page	.1011
Addres	ter Name : M/s. ISVY Cement s : Salboni, Poschim I West Bengal f Sample : Ground Water ng Location : Bore Well No. 2 N	Vedinipur,	lding	Report No. Report Date Sample Id No. Sampling Date Test Start Date Test End Date		: GW/18(03)/96 ; 25/03/2018 : GW/18(03)/07 : 16/03/2018 : 22/03/2018 : 29/03/2018
51. Na.	Parameter text	Unit	Standard egainst which tast are performed Destrable Umit Umit		Result	
1	Temperature (Collection Time)	*	IS: 3025 (Part-9) 1984 RA 2002	Not	specified	23.0
2	Turkidity	NTU	APHA 23rd Edn. 2017. 2130 B	1	5	<1.0
3	pHvalue	1.427	A7HA 23rd Eds, 2017, 4500 H+B	6.5-8.5	No Relaxation	7,88
4	Yotal Suspended Solids (as TSS)	.mg/l	APHA 23rd Edn. 2017. 2540 D	Not	specified	5,0
5	Total Dissolved Solids (as TDS)	ngfl	APHA 23rd Edn. 2017, 2540 C	500	2000	150.0
6	Sp. Conductivity at 25°C	45/09	APHA 23rd 5ch. 2017. 2510 B	Not	specified	300.0
7	Calcium Hardness (as CeCO ₃)	mg/i	15 : 3025 (Part-40):1995 RA 2014	Not specified		76.25
8	Bio-Chemical Oxygen Demand (BOD)	mg/l	15: 3025 (Part-44) 1993 RA 2014	- e.:		<1.0
9	Chemical Oxygen Demand (COD)	mg/l	APHA 23" Edn. 5220 8:2017		-	3.60
10	Ol & Grease	mg/l	APHA 23 rd Edw. 5229 8:2017			<1.0
11	Total Hardness (as CaCO ₃)	mg/l	(\$:3025 (Part-21) #A 2014	200	600	102.30
12	Mercury (as Hgi	mg/l	APHA.23 ⁴⁵ Edn. 2017. 31128	0.001	No Relatation	<0.0002
13	Lead (as Pb)	ngA	APHA 23"* Eds. 2017. 31118	0.01	No Relaxation	<0.005
54	lron (al Fe)	mgA	APHA 25 ⁷⁸ Eth. 2017.31118	0.3	No Relation	0.21
15	Copper (as Cu)	mg/l	АРНА 23 ¹⁸ Edn. 2017. 31118	0.05	1.5	40.01
14	Total Oromism (as Cr)	P.gm	APHA 23" Edn. 2017.31138	0.05	No Relatation	=0.01
17	Dinc (as Zn)	mg/l	АРНА 25 ¹⁰ Edn. 2017. 31118	5	15	0.080
u	Arsents (in As)	mg/l	APHA 23 rd Eds. 2017. 31140	0.01	0.05	-0.01
19	Cadmium (as Cit)	ng/l	APHA 23" Emv. 2017. 31118	0.001	No Relaxation	<0.001
20	Nickel Jas Ni)	mg/l	AP91A 25 ¹⁴ Emin, 2017, 31118	0.62	No Relatation	<0.005
25	Mangonese (as Mit)	mg/l	APHA 23 rd Edn. 2017. 31118	0.1	0.3	0.060
22	Fluonde (as F)	mg/l	APHA 23" Edn. 2017. 4500 F.D.	1	1,5	0.31
21	Chloride (as Cl)	mg/l	APHA 23 rd Edn. 2017 4500 CI B	250	1000	13.10
24	Sulphate (as SO ₄)	mg/l	(5:3025 (Part-24) RA 2214	200	400	4.0
25	Sulfite (as SO ₂)	mg/l	15:3025 (Purt-24) RA 2014	-		<0.005
26	Nitrate (as NO ₂)	ng/l	APHA 23" Erin. 2017. 4500NOg-D	45	No Relatation	0.21
27	Nitrite (as NO ₂)	mg/l	APHA 23" Edn . 2017. 4300NDg-8	Not	specified	<0.01
28	Phenolic Compounds(as C ₄ H ₂ OH)	mg0	APHA 23 rd Edn. 2017-5530 D	0.001	0.002	<0.001

Thakaabad Tanmoy Chekrabarty

Pro/sc

aint

Quality Manager Authorized Signatory For Pollution And Project Consultan

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ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers, EIA & Disaster Management Study

Report No.

Report Date

115.	C. 6072	0.0000	0.000	10000	N (1800)	The law
ne result	is relate	only to	the :	ATAN	eters.	Instand

thoreabardy Tanmoy Chakrabarty Quality Manager Authorized Signatory For Pollution And Project Consultants

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Office & Laboratory : P-145, Bangur Avenue, Block - A, Kolkata - 700 055 Phone : (033) 2574-3418 / 2984 • Fax : (033) 2574-2984 E-mail : ppconsultants@awsppc.in / awsppc@airtelmail.in • Web : www.awsppcenvirogroup.com

Format No. PPC/FM/71	Issue No. 03	lasus Dt. 01/01/2017 (Rev.No.01 Rev. Dt. 01/01/2018	80
		TEST REPORT	
10000000000000000000000000000000000000		Water Sample	
Customer Name	: M/s. ISW Cemer	it Limited, a	tep

: Salboni, Paschim Medinipur,

West Dengal Type of Sample : Ground Water Sampling Location : Bore Well No. 3 Near Stack Yard					Sample Id No. Sampling Date Test Start Date Test End Date	
SL.	Parameter test	Unit	Standard against which	Norms as par 15:10500-2012		1.39/03/2018 Result
NO.		12705	test are performed	Desirable Limit	Permissible Limit	makan
1	Temperature (Collection Time)	°C	15: 3025 (Part-5) 3584 8A 2002	Not	specified	22.0
2	Turbidity	NTU	APRA 23rd Eds. 2017. 2130 8	1	5	6.0
3	pH value	- <u>1</u> 2	APHA 23rd Edn. 2017, 4500 H+8	8.5-8.5	No Relocation	8.10
4	Total Suspended Solies (as 755)	mgA	APHA 23rd Edn 2017, 2540 D	Not	specified	0.5
5	Total Dissolved Selids (as 105)	mgA	APHA 23rd Eds. 2017. 2540 C	500	2000	180.0
ő	Sp. Conductivity at 25°C	µS/cm	APHA 23rd Edn, 2017. 2510 B	Not	specified	450.0
2	Calcium Hardness (as CaCO ₃)	mg/l	(5 : 3025 (Part-40): 1991 RA 2014	Not specified		93.47
B	Bio-Chemical Oxygen Demand (BOD)	ing/l	(5: 3025 (Part-44) 1993 RA 2014	14-	-	41.0
9	Chemical Dagen Demend (COD)	figm	APHA 23 ¹⁹ Eds. 5220 8:2017		14	4.0
10	Cil & Greater	mgd	APHA 23 ⁴⁷ Edn. 5220 8:2017		1	<1.0
11	Total Hardress (as CaCD.)	mg/l	(5:3825 (Part-21) RA 2014	200	600	140.43
12	Mercury (as Hg)	mg/l	APINA 23 ⁴⁰ Edm. 2017, 31128	0.001	No Relatation	<0.0002
13	Lead (as Pb)	mg/l	APHA 23 ¹⁰ Edn. 2017. 3111B	0.01	No Relaxation	<0.005
14	tron (ac Fe)	mg/l	APRA 23" Edn. 2017.31118	0.3	No Relaxation	0.85
15	Copper (as Cu)	mg/l	APHA 23 ¹⁵ Edv. 2017. 31118	0.05	1.5	10.05
16	Total Chromium (as Cr)	mg/l	APHA 23" Edo, 2017, 31118	0.95	No Relaxation	\$0.01
17	Zinc (as Zn)	mg/1	APRA 23 ¹⁴ Edn. 2017. 31118	5	15	0.095
18	Arsenic (as As)	mg/l	APHA 23" Edn. 2017. 3114C	0.01	0.05	<0.01
19	Cadmium (as Cd)	mg/l	APHA 23" Edv. 2017, 31118	0.003	No Relaxation	<0.001
20	Nickel (as Ni)	mg/l	APHA 23 ¹⁸ Edn. 2017. 31118	0.02	No Relaxation	<0.005
21	Manganese (as Min)	ngd	APHA 23" Edw. 2017, 31118	0.3	0.3	0.09
22	Fluoride (as 7)	ing/l	APHA 23/8 Ean. TO17, 4500 F.O.	1	1.5	0.38
23	Chloride (m Cl	mg/l	APHA 23 ¹⁸ Edn. 2017. 4500 CI B	250	1000	11.0
24	Sulphate (as 50 _a)	mg/l	15:3025 (Part-24) RA 2014	200	405	7.0
25	Selfite (es SO1)	mg/l	(5:3025 (Part-24) RA 2014	-	-	(0.005
26	Nitrate (as NO ₃)	mg/l	APHA 23 rd Elm. 2017. 4500HD ₃ -D	45	No Retaination	0.26
27	Nitrite (as NO ₂)	mg/l	AFHA 25" Edn 2017. 4500ND,-8	NUE	specified	<0.01
28	Phenolic Compounds(as C _e H ₂ OH)	mg/l	APHA 23 ¹⁰ Ede. 2017:5530 D	0.001	0.002	40.001

Address

Page, 1 of 1

- GW/18(03)/87

29/03/2018



ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers. EIA & Disaster Management Study

Report No. : G/18/03)/20-22	E LEVEL MONITORING REP		:29/03/2018
Customer Name Address	PORT : Limited, Medinipur,		
Sampling Station	Near Project Office	Near Labour Colony (E)	Railway Siding
Type of Area	Industrial	Industrial	Industrial
Monitoring Date	15/16.03.2018	15/16.03.2018	15/16.03.2018
Time (In Hrs.)	Hourly Leg dB(A)		
6.00-7.00	58.8	58.0	54.6
7.00-8.00	53.7	65.4	55.1
8.00-9.00	62,9	68.1	59.7
9.00-10.00	65.3	73.3	67,3
10.00-11.00	66.5	71,4	73.0
11.00-12.00	65.3	64.5	69.8
12.00-13.00	68.9	57.6	64.3
13.00-14.00	60.1	64.4	66.3
14.00-15.00	64.4	68.7	63.3
15.00-16.00	72.5	67.7	68.6
16.00-17.00	68.9	71.5	70.6
17.00-18.00	55:1	70.7	71.6
18.00-19.00	59.0	68.6	71.8
19.00-20.00	55.5	61.0	72.7
20.00-21.00	44,7	59.9	68.0
21.00-22.00	43.3	58.1	56.7
22.00-23.00	41.2	52,2	56.7
23.00-0.00	41.6	49.7	55.1
0.00-1.00	39.6	46.2	50.9
			the second se

42.6

45.9

42.9

43.0

41.1

65.2

47.6

75 dB(A)

70 dB(A)

The Applicant shall take adequate measures for control of noise levels from its own sources within

1.00-2.00

2.00-3.00

3.00-4.00

4.00-5.00

5.00-6.00

Leg dB(A) Day Time

Loq dB(A) Night Time

Day time Limit (06:00 A.M.-10:00 P.M.)

Night Time Limit (10:00 P.M.-06:00 A.M.)

PPC/FM/66 Issue on : 03 Issue Dt. 01/01/2017 (Rev.No. 01 Rev.Dt.01/01/2018) Page No. 1/1

Thangenbrok

44.0

43.9

44.2

50.4

51.5

68.0

48.9

75 dB(A)

70 dB(A)

44.3

44.5

46.1

49.2

50.8

68.7

51.8

75 dB(A)

70 d8(A)

Tanmoy Chakrabarty **Quality Manager**

Authorized Signatory

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ENVIRONMENTAL POLLUTION CONTROL - Air, Effluent, Pharmaceuticals & Chemical Project Engineers. EIA & Disaster Management Study

PPC/FM/66 Issue on : 03 Issue Dt. 01/01/2017 (Rev.No. 01 Rev.Dt.01/01/2018) Page No. 1/1 Report No. : G/18(03)/23-25 Date : : 29/03/20

Customer Name Address		: M/s. JSW Coment Limited, : Salboni, Paschim Medinipur, West Bengal			
Sampling Station	Near Proposed CPP Area	Staff Colony (Inside Ankur Company)	Near Godaplasal Village		
Type of Area	Industrial	Industrial	Industrial		
Monitoring Date	16/17.03.2018	16/17.03.2018	16/17.03.2018		
Time (In Hrs.)	the second s				
6.00-7.00	52.7	Hourly Leg dB(A) 44.9	51.6		
7.00-8.60	58.4	43.7	52.8		
8.00-9.00	61.6	47.0	53.6		
9.60-10.00	59.2	45.6	53.7		
10.00-11.00	62.5	48.2	54.9		
11.00-12.00	63,1	53.5	61.7		
12.00-13.00	55.4	55.8	66.0		
13.00-14.00	61.3	56.9	65.4		
14.00-15.00	55.7	59.6	67.6		
15.00-16.00	63.7	64.0	71.1		
16.00-17.00	65.2	64.7	72.6		
17.00-18.00	65.5	65.6	73.5		
18.00-19.00	67.4	66.0	75,7		
19.00-20.00	62.0	62.9	70.3		
20.00-21.00	58.5	59.6	66.1		
21.00-22.00	59.3	57.9	64.6		
22.00-23.00	56.9	54.6	62.2		
23.00-0.00	51.9	\$3.5	60.3		
0.00-1.00	51.8	50.9	59.9		
1.00-2.00	49,7	49.4	61.6		
2.00-3.00	49.8	49.0	64.1		
3.00-4.00	48.7	48.2	55.4		
4.00-5.00	47.2	54.8	54,2		
5.00-6.00	48.5	49.6	53.1		
Leg dB(A) Day Time	62.3	60.7	68.9		
Leg dB(A) Night Time	51.7	52.0	60.3		

75 d8(A)	75 dB(A)	75 dB(A)
70 dB(A)	70 d8(A)	70 dB(A)
	and the second se	

Thakzabad C Tanmoy Chakrabarty

Project.

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Quality Managor Authorized Signatory

For Pollution And Project Consultants

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LABORATORY FOR ANALYSIS OF AIR, EFFLUENT, SOLIDWASTE, COAL, ORE. ETC.

GOVERNMENT OF WEST BENGAL DIRECTORATE OF FACTORIES NEW SECRETARIAT BUILDINGS (8th floor) 1, KIRON SANKAR ROY ROAD, KOLKATA -700001 REGISTRATION CERTIFICATE

No. WBF/OL/2018/38/R

Kolkata, January 15, 201-

ANNEXURE-II

From: The Chief Inspector of Factories, West Bengal, To: The Occupier JSW CEMENT LIMITED VILL-JAMBEDIA, DISTRICT: PASCHIM MEDINIPUR, P. S.: SALBONI, P. O .: SHALBONI S.O. PIN: 721147

Factories Act, 1948 : West Bengal Factories Rules 1958

Sir.

٩.

I have the honour to acknowledge receipt of your letter No. ____AP2017REG000048___dated the ___30/06/2017 together with the application for registration and grant of licence in Common Application Form and to State that the premises known as _JSW CEMENT LIMITED situated at _VILL-JAMBEDIA, DISTRICT: PASCHIM MEDINIPUR, P S.: SALBONI, P. O.: SHALBONI S.O. PIN: 721147_ constitute a "factory" as defined "Under V Section 2m(i) / Section 2m(ii) / Section 85 " of the said Act. Consequently, the provisions of the following Acts and Rules are applicable to you factory and must be adhered to :-

- 1) The Factories Act, 1948
- 2) The West Bengal Factories Rules, 1958
- 3) The Payment of Wages Act, 1936
- The West Bengal Payment of Wages Rules, 1958 4)
- 5) The Maternity Benefit Act, 1961
- The registration number of the factory is <u>0002/MD(W)/X/2017</u> Date 05/07/2017
- The classification No. of the factory is 23942

The Licence No. of the factory is 021015

"Provided women are employed in the factory

Yours faithfully. KARTIK CHANDRA for Chief Inspector of Factories, West Bengal Date

Copy forwarded for information to the :

- Director, National Sample Survey Organisation, FOD, CGO Complex, Salt Lake, 2nd floor, Kolkata -1) 700 064
- Regional Director, E.S.I. Corporation, 5/1, Grant Lane, Kolkata 700012. 2)
- Provident Fund Commissioner, West Bengal, DK Block, Sector-II, Salt Lake. Kolkata-91. 3)
- Dy. C.I.F., Statistics, Extn. Office. 4)
- The name of the factory should be entered under the classification 23942

The total number of workers proposed to be employed in the factory is 500, KW/HP- 15000

Kolkata:

The.

Memo No. M/WBF/OL/2018/38/R

KARTIK CHANDRA Dentroped by statts MANDAL One station is reliated to for Chief Inspector of Factories, West Bengal

Dated, The

Copy along with Common Application Form (2nd copy for the year _

forwarded to the Dy. C.I.F & I.F. for Information with reference to his U.O. No.

dt.

KARTIK CHANDRA Deptode aspending contra-MANDAL the state of the latest strength

for Chief Inspector of Factories, West Bengal

Erade

The Directorate of Eactories . The Designated Office: Authorised Officer

.

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T_U

ISW CEMENT LIMITED TRIDX - BAY TOWER HILAND PARK 1925 CHAK GARIA - Nome and address of the Applicant) KOLKATA TOUGHT

Sit The West Bengal Right to Public Services Act. 2013 - Acknowledgement of application

Ref Your application No. <u>AP2017REG000048</u> dated <u>30/06/2017 11 19 PM</u> (increb., acknowledge your application cited. Due date of service to be provided is <u>65</u> working days OR The following detects in the application may be rectified urgently. (Specify detects if any)

(2)

Yours faithfully $~\chi^{\,\dot{\gamma}}$

Designated Officer / Authorised Officer (Office Seal)

3

ANNEXURE-III





		FORM 4 ANNEXURE-IV
	PERMIT [U/S 7(3)(b) / 7(4)(b) /	OGRAM OF THE CONCERNED AUTHORITY) FOR SINKING OF NEW WELL 7(5)(a) of the West Bengal Ground Water Resources ent, Control and Regulation) Act 2005.]
	(4029) PERM	UT NO. P1428445 00349 00000376E
. (a) Name of the applicant (user)	: Shutom N/S JEN Convert Ldd.
(b		N.A.
(0		
(d		JEW Gener Lid Ankin Complex; Small Farmer Milrginal Farmer Others
(e	A CONTRACTOR OF	BP/B0149; \$1-99 dt 09.09.15
(f)) Specimen signature of the user	awter
L	ocation particulars-	at a start
(a) District	West Miduapore
(b) Block, Mouza, J. L. No., Plot No.	Salbain; Tambedia; 445, 349
(0) Municipality/Corporation Ward No./Borough No., Holding No.	
Pa	articulars of the proposed well and pumping	g device
(a) Type of the well	TW
(b) Approx. depth of the well (m)	: 150m
(¢) Purpose of the well	Industrial (Cement Factory)
(d) Assembly size (for tube well)	200 mm.X 150 mm.
(0) Approx. strainer length (for tube well).	20 m
(f)) Diameter (for dug well)	T - m.
(g) Type of pump to be used	Submercailele
(h) H. P. of the pump	T.SH.P.
(i)	Operational device	
(j)	Rate of withdrawal (m3/hr.)	day 30m3/hr for Thus/day
(k) Maximum allowable running hours per	day som the for this/day
W.		aser) to sink a well in the location specified at SL (2) for extraction of ground il. (3)(j) and for running hours / day as shown at SL (3) (k), and is valid subject to af.
		Office of the Geologist - trumper Roef
lace :	W hiduapera 16-10-2015	
onditio		Momber Secretary, D.L.A. Paschim Medinipur Bignanev of the Issuing Authoritys and Devise Welfoglist Geological Sub-Dim, NoI/A, S.WJ.D.

Conditions : Paschim Medinipur (1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.

No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) Manufact Secretary, D.L.A. made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
 In case, any of the particulars, information furnished by the analyzed in his regard shall lead to cancellation of this permit.

18

- In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification (5)at any subsequent stage, this permit is liable for cancellation.
- (4) Any other condition imposed by the concerned Authority.

Office of the Geologist Genopical Sub-Dwn. No. - 1/A. S W.I.D. OFFICE MeniberSerietary, D.L.A. Paschim Medinipur

SPL/000/09-10/1,09,000 PTO

FORM 4 (See Rules 9(3) and 10(5)] (EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY) PERMIT FOR SINKING OF NEW WELL

0)7574

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

PERMIT NO. \$1428 44500349000000175E

1. (a) Name of the applicant (user)

(b) Son/Daughter of

(4028

- Address of the applicant (c)
- (d) Category of farmer (Please tick) (in case of irrigation well)
- (c) Serial No. of application Form and date of submission
- (f) Specimen signature of the user
- Location particulars-

(a) District

- (b) Block, Mouzs, J. L. No., Plot No.
- (c) Municipality/Corporation Ward No./Borough No., Holding No.
- Particulars of the proposed well and pumping device 3.
 - (a) Type of the well
 - (b) Approx. depth of the well (m)
 - (c) Purpose of the well
 - (d) Assembly size (for tube well)
 - (c) Approx. strainer length (for tube well)
 - Diameter (for dug well) (f)
 - (g) Type of pump to be used
 - (h) H. P of the pump
 - Operational device (i).
 - Rate of withdrawal (m3/hr.) (i)
 - (k) Maximum allowable running hours per day

This permit authorizes the owner applicant (user) to sink a well in the location specified at SL (2) for extraction of ground water at a rate not exceeding that as shown at SI. (3)(j) and for running hours / day as shown at SI. (3) (k), and is valid subject to the observance of the conditions stated overleaf

Office of the Geologist Geologic OFFICE- A SWLD.

Member Section, D.L.A.

Place: D. Miduahar.

Date: 16 10.2015

Conditions :

- File World Signature of the Islung Authors and Designation Goologist Paschim Medinipur In case of any change of ownership of the proposed well, fresh registration has to be obtained.
- No change of location, design, rate of withdrawal and pomping device in respect of the proposed well as indicated at SI. (2Main bod Sucretary, GahaAbe made without poor permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permiseaschim Medinipur (2)In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification
- at any subsequent stage, this perntit is liable for cancellation. Office of the Geologist (4) Any other condition imposed by the 5 Authorit

et by the concerned running.	Georgral Sub-Divn No- UA, S WLD
D	Member Serretary, D.L.A.

Geological Sub. Divn. No.-UA, S.W.LD.

SPL 000/09-10/1.00.000 P. T. O



TSW Cerner LLD; Anker Complex, Vill In tedissmall Farmer Marginal Farmer Other · NA

Similime H/S JSW Cement Ldd.

: BP/B0149-81-97; dd 09.09, 15

West Midnapore Sallopii; Jamliedia, 445, 349

TW

1500

Industried (Coment Factory)

200 mm X 150 mm.

20 TIS.

m. Saburrible

7.5H-P Electric Motor

30 m3/hr for Floro/ day

	(EMBLEM OR HOLOGR PERMIT FOR (U/S 7(3)(b) / 7(4)(b) / 7(5)(a	FORM 4 Rules 9(3) and 10(5)/ AM OF THE CONCERNED AUTHORITY) SINKING OF NEW WELL () of the West Bengal Ground Water Resources ontrol and Regulation) Act 2005 /
	(4030) BERMIT N	0 P142844500349000002TEE
(a)	Name of the applicant (user)	Shrisme M/S TSW Center Ud.
(b)	Son/Daughter of	N-A.
(c)	Address of the applicant	I TSW Cerner Lidd; dukuse Complex; Vill
(d)	Category of farmer (Please tick) (in case of irrigation well)	Jardsedia Salbowi Small Farmer/Marginal Farmer/Other
(c)	Serial No. of application Form and date of submission	BP/B 0149: 10-98 dt. 09.09.15
(f)	Specimen signature of the user	Anno Hr
Loc	ation particulars-	
(a)	District	West Midnaporo
(b)	Block, Mouza, J. L. No., Plot No.	Salbon; Jambedia; 445, 349
(c)	Municipality/Corporation Ward No./Borough No., Holding No.	N . A
Part	ticulars of the proposed well and pumping devi	co-
(a)-	Type of the well	T.W
(b)	Approx. depth of the well (m)	1500
(c)	Purpose of the well	: Industrial (Cement Factory) .
(d)	Assembly size (for tube well)	200 mm.X 150 mm.
(c)	Approx, strainer length (for tube well)	30 m
(1)	Diameter (for dug well)	m. and
(17)	Type of pump to be used	Supresidele

Electric Motor 7.5H.P. 30m3/w for Glus/day

Type of pump to be used (g)

1. (a) Name of the applicant (user)

A.

(h). H. P. of the pump

Operational device (1)

Rate of withdrawal (m3/hr.) (j)

(k) Maximum allowable running hours per day

This permit authorizes the owner applicant (user) to sink a well in the location specified at SI, (2) for extraction of ground water at a rate not exceeding that as shown at SL (3)(j) and for running hours / day as shown at SL (3) (k), and is valid subject to the observance of the conditions stated overleaf.

D.L.A

Pince: W. Hidnahas

Date: 16:10 2015

Conditions ?

Paschim Medihipur In case of any change of ownership of the proposed well, fresh registration has to be obtained.

No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of the proposed well) as indicated at SI (2 Marthaut in control and pumping device in respect of th (2)made without prior permission of the Competent Authority. Any deviation in this regard shall lead to curcellation of this permit Pauchim Medinipur

In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification (3)at any subsequent stage, this permit is liable for cancellation.

(4)Any other condition imposed by the concerned Authority.

Office of the Geologist Geological Sub-Dim, No.- 1/A. S.W1D. OFFICE Membes EAgletary, D.L.A.

SPL/000/09-10/1.00/000 P T O ·

Office of the Geologist Geologica SUPPLEED SWID,

Signature of the Mountain and Devinmation Geologist Anning Antholity

Goological Sub. Dive. Ne. -UA, S.W.I.D.

(EMBLEM OR HOLOGRAM PERMIT FOR SI [U/S 7(3)(b) / 7(4)(b) / 7(5)(a) o	ORM 4 Wes 9(3) and 10(5)/ 1 OF THE CONCERNED AUTHORITY) 0 35 315 INKING OF NEW WELL (1 the West Bengal Ground Water Resources brol and Regulation) Act 2005.
PERMIT NO.	P14284460000000000000000000000000000000000
·	: Shrism JSW CEMENT LIMITED
(a) Name of the applicant (user) (b) Son/Daughter of	
(c) Address of the applicant	Salboin Naturbankali
(d) Category of farmer (Please tick)	: Small Farmer/Marginal Farmer/Others
(in case of irrigation well)	
(e) Serial No. of application Form	BP/B 0191, SL- 81, Dt- 04/08/2017
and date of submission	Paschim Medinipur Salboni, Notunbankati, 446, 4
(f) Specimen signature of the user	This Samehanden
Location particulars—	Madin ibut
(a) District	Paschim Maturati, 446, 4
(b) Block, Mouza, J. L. No., Plot No.	Salboni, Naturomitin,
(c) Municipality/Corporation Ward No./Borough No., Holding No.	
3. Particulars of the proposed well and pumping device-	
(a) Type of the well	T.W.
(b) Approx. depth of the well (m)	150m
(c) Purpose of the well	Industrial
(d) Assembly size (for tube well)	200 mm.X 150mm
(c) Approx. strainer length (for tube well)	A A A A A A A A A A A A A A A A A A A
(f) Diameter (for dug well)	19 m
(g) Type of pump to be used	Submersible
(h) H. P. of the pump	7.5 H.P.
(i) Operational device	E lectric
(j) Rate of withdrawal (m3/hr.)	30 m3/hz
(k) Maximum allowable running hours per day	7 Hours
This permit authorizes the owner applicant (user) to si water at a rate not exceeding that as shown at S1. (3)(j) ar the observance of the conditions stated overleaf.	ink a well in the location specified at SI. (2) for extraction of ground nd for running hours/day as shown at SI. (3)(k), and is valid subject to
Place: Midnapore, Off. Geogra	Georgen Chinaciji Cart 3/1/2
Date: 3-11-2014 Men	SEAL 4 Signature of the Issbag Authority / and Designation
Conditions : (1) In case of any change of ownership of the proposed well, fresh regi	Paschim Medinipur Istrition has to be obtained. Geological Sub-Divn. No W
(2) No change of location, design, rate of withdrawal and pumping devic	te in respect of the proposed well as indicated at SI. (2) and (S. Well-Der MERE And De
 made without prior permission of the Competent Authority. Any devi (3) In case, any of the particulars/information famished by the applicant 	ation in this regard shall lead to cancellation of this permit.
at any subsequent stage, this permit is liable for cancellation.	A the Gaologist Paschim Medinipur
Geologia	San Own, Mo - UM, G THERE
dunte 2017 Harris	OFFICE DestSeptetary, D.L.A. aschim Mediniput

1.1.12

(EMBLEM OR HOLOG PERMIT FC [U/S 7(3)(b) / 7(4)(b) / 7(3) (Management	FORM 4 See Rules 9(3) and 10(3)] GRAM OF THE CONCERNED AUTHORITY) OR SINKING OF NEW WELL (1(a) of the West Bengal Ground Water Resources Control and Regulation) Act 2005.]
PERMIT	NO. P1428 445 00 349000001TSE
1. (a) Name of the applicant (user)	: Shri/Smt. JSW CEMENT LIMITED
(b) Son/Daughter of	
(c) Address of the applicant	Salboin, Jambedia
(d) Category of farmer (Please tick) (in case of irrigation well)	Small Farmer/Marginal Farmer/Others
 (e) Serial No. of application Form and date of submission 	BP/B 0191. SL- 82. Dt-04/08/2017 Tyju Lauchandla Poschim Medinipur Salboni, Jambedia. 445, 349
(f) Specimen signature of the user	- muchandan
2. Location particulars	Population and the second
(a) District	Paschim Medinipui
(b) Block, Mouza, J. L. No., Plot No.	: Salboni, Jombedia. 445, 349
(c) Municipality/Corporation Ward No./Borough No., Holding No.	
3. Particulars of the proposed well and pumping d	evice
(a) Type of the well	T.W.
(b) Approx. depth of the well (m)	150m
(c) Purpose of the well	Industrial
(d) Assembly size (for tube well)	: 200 mm.X 150mm.
(e) Approx. strainer length (for tube well)	: 18 m.
(f) Diameter (for dug well)	ig N Am
(g) Type of pump to be used	Submersible
(h) H. P. of the pump	7.5 H.P.
(i) Operational device	Electric 30 m3/hr
(j) Rate of withdrawal (m3/hr.)	30 m3/hr
(k) Maximum allowable running hours per day	: If Hours
	r) to sink a well in the location specified at SL (2) for extraction of ground 3)(j) and for running hours / day as shown at SL (3) (k), and is valid subject to
Place: Midnapore	grant the Goologies Chimmery's loy
Date: 3-11-17	Generation No. IA SWID, Signation of the Isolony Authorghy 1/1
Constitutione :	Member Secretary, D.L.A. Geologist
 In case of any change of ownership of the proposed well, fi No change of location, design, rate of withdrawal and pumpi 	resh reg Raschim Medinipuri ng device in respect of the proposed well as indicated at SI. (2) and (S.Wal.Owr.Medicity/Fe
made without prior permission of the Competent Authority. A	any deviation in this regard shall lead to cancellation of this permit.
(3) In case, any of the particulars/information furnished by the a at any subsequent stage, this permit is liable for cancellation.	pplicant in his application for issuance of this permit is found to Migmber Secretary cultar. Paschim Medinipur
(4) Any other condition imposed by the concerned Authority.	Office of the Geologist
SPL:000:09-10/1,00,000	Georgical Sub Ober No UA, S WID.,
SPL:000/09-10/1.00,000	Mamber Secretary, D.L.A. P.P.O. for Conditionalities

	FORM 4 [See Rules 9(3) and 10(5)] OGRAM OF THE CONCERNED AUTHORITY) 03017 OR SINKING OF NEW WELL
	(5)(a) of the West Bengal Ground Water Resources
	nt, Control and Regulation) Act 2005.]
PERMI	TNO. \$1428456001940000001TSE
1. (a) Name of the applicant (user)	Shri/Smt. JSW CEMENT LIMITED
(b) Son/Daughter of	Salleoni, Kulphini
(c) Address of the applicant	Success, Surface
 (d) Category of farmer (Please tick) (in case of irrigation well) 	: Small Farmer/Marginal Farmer/Others
(e) Serial No. of application Form	BP/B 0191, SL- 83, DE-04/08/2017
and date of submission	Paschim Medinipur Salboni, Kulphini, 456, 194
 Specimen signature of the user Location particulars— 	Tynhamchanan
(a) District	Parchim Medinipur
(b) Block, Mouza, J. L. No., Plot No.	Cibani, Kulphini, 456, 194
 (c) Municipality/Corporation Ward No./Borough No., Holding No. 	Salet
 Particulars of the proposed well mid pumping. 	Assidea
(a) Type of the well	T-W.
(b) Approx. depth of the well (m)	150m
(c) Purpose of the well	Industrial
(d) Assembly size (for tube well)	200 mm.X 150 mm.
(e) Approx. strainer length (for tube well)	
(f) Diameter (for dug well)	18 m
(g) Type of pump to be used	Submersible
(h) H. P. of the pump	7.5. H.P.
(i) Operational device	
(j) Rate of withdrawal (m3/hr.)	Electric 30 m3/hr
(k) Maximum allowable running hours per de	y 7 Hours
This permit authorizes the owner applicant (us	er) to sink a well in the location specified at SI. (2) for extraction of ground (3)(j) and for running hours / day as shown at SI. (3) (k), and is valid subject to
Mar Midnapore	Office of the Geologist Chium cui Poss
Date: 3/11/17 .	SEALA SWID. Signature of the Issuing Authority
Conditions :	Member Secretary Di A
 In case of any change of ownership of the proposed well. No change of location, design, rate of withdrawal and pump 	init device in respect of the provised well as indicated a SUBOR SUD Drug. No WA-
 In case, any of the particulars/ information furnished by the at any subsequent stage, this permit is liable for cancellation 	Any deviation in this regard shall lead to concellation of this period. I.D., Medinipur applicant in his application for issuance of this permit is found to be inconset during verification Member Secretary, D.L.A.
(4) Any other condition imposed by the concerned Authority.	Office of the Gastaslat
Short	CETTING WAS WID
SPL/000/09-10/1,00,000 03/10/17	Membalishietan DIA PROJE Conditional
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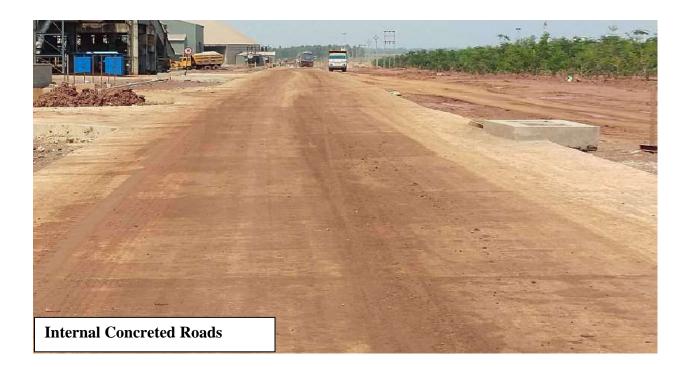
ANNEXURE-V





ANNEXURE-VI







OBSERVATION

Results as mention in Form - 30 which are annexed herewith reveal the undernoted.

- Concentration of Carbon Monoxide & Carbon Dioxide in the factory premises have been found within permissible limit.
- Noise level in the factory premises have been found within permissible limit in general and of few place crossed the limit.
- Illumination in general is adequate, advised to be increased.

SAFECON INDIA AN ISO 9001 : 2015 & OHSAS 18001 : 2007 CERTIFIED COMPANY MEMBER OF NATIONAL SAFETY COUNCIL COMPETENT AUTHORITY oved by Chief Inspector of Factories. Govt. of West Bendal under Factorie

 Approved by Chief Inspector of Factories, Govt. of West Bengal under Factories Act Under Section 28, 29 & 31 of Factories Act
 Approved by Chief Controller of Explosives, Govt. of India under Petroleum Act
 Under Rule 126, 130 of Petroleum Act
 Safety Audit, HIRA/HAZOP STUDY, Work Zone Monitoring, Stability Test & Certification, Safety Training, Instrument Calibration, NDT and DP Test.
 Repairing, Servicing Of EOT/HOT Cranes, Chain Pulley Block, Electric Hoist etc.
 Works & Office 1 28, D. N. Mukherjer Road, Chains, Serampole - 712 204 Tele Fax : (033) 2622-2062, N. 99032631180

E-mail - safeconini@gmail.com/sou0707@reditfmail.com

ANNEXURE-VIII







Annexure-IX

CSR I	Budget fo	r Financia	l Year: 2016-2017 to 2025-26			Bu	dget for t	he veer	(Re I ak	he)			
Na	ame of the	Location:	JSW Cement Ltd., Salboni			Du	uget for t	ine year	(IN5. Lak	115)			
Category	Inter nal order No.	Sl. No.	Activity	2016-17	2017-18	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	202 5- 26
		Cat	egory 1	60.00	68.00	61.00	61.00	61.00	71.00	71.00	71.00	66.00	66. 00
		1.1	Eradicating Hunger and Poverty - Providing Nutritional Food										
Improving		1.2	Malnutrition Eradication						10.00	10.00	10.00	5.00	5.0 0
Living Conditions		1.3	Promoting Health Care	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60. 00
		1.4	Safe Drinking water		8.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0 0
	Category 2		2.10	4.10	22.00	28.00	35.00	35.00	47.00	47.00	37.00	37. 00	
Promoting		2.1	Formal educational institution infrastructure & Development	2.10	2.10	20.00	25.00	30.00	30.00	40.00	40.00	30.00	30. 00
Social Developme		2.2	Vocational educational institution infrastructure & Development		2.00	2.00	3.00	5.00	5.00	7.00	7.00	7.00	7.0 0
nt		2.3	Support to elderly & Differently abled										
		2.4	Consultancies										
Category 3		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0 0		
		3.1	Building and Infrastructure Support										
Addressing Social		3.2	Promotion/Training/Supporting SHG's										
Inequalities		3.3	Supporting Livelihood activities (Ref: Like BPO etc) Development										

	3.4	Supporting Marginalized community										
	Cat	egory 4	0.00	5.00	5.00	10.00	10.00	5.00	5.00	5.00	0.00	0.0 0
	4.1	Watershed management										
	4.2	Support to Parks and forests reserves										
Addressing Environmen	4.3	Protection & Promotion of Bio diversity										
tal Issues	4.4	Tree Plantation		5.00	5.00	5.00	5.00					
-	4.5	Promoting use of Renewable energy				5.00	5.00	5.00	5.00	5.00		
	4.6	Research and publication										
	Cat	egory 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0 0
	5.1	Conservation, Restoration of Heritage Structures										
Preserving national	5.2	Promotion and protection of Traditional Art and Crafts										
Heritage	5.3	Promotion & Support to Museums, Art Galleries & libraries										
	5.4	Research and Publications										
	Cat	egory 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0 0
	6.1	Sports Infrastructure development & Providing Equipments										
Promotion	6.2	Honororium to Sports coordinators and players										
of Sports	6.3	Training and Nutrition to Sportsperson										
	6.4	Promotion and Development of Sports										

		Cat	egory 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0 0
Contributi on toPM Relief Funds	7.1		Contribution to Relief Funds										
		Cat	egory 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0 0
Supporting Technolog 8.1 Supporting Technology Incubalators													
		Cat	egory 9	0.00	10.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50. 00
Rural Developm	9.1		Rural Roads and Drainages			40.00	40.00	40.00					
ent Projects	9.2		Infrastructure facilities in Rural area		10.00				40.00	40.00	50.00	50.00	50. 00
		Cate	gory 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0 0
Swachcha Bharat Abhiyan	10. 10. 10.	2	Sanitation - Construction, Maintenanace & upgradation of Waste Management Awareness Campaign										
			gory 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Slum Developm ent	11.	1	Slum Development										
		Ov	erhead	0.90	1.90	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.5 0
Project Mangeme nt Cost	12.	1	Project Mangement Cost	0.90	1.90	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.5 0
Total				63.00	89.00	130.0 0	141.0 0	148.0 0	153.0 0	165.0 0	175.0 0	155.5 0	155 .50

ANNEXURE-X

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan', Bldg. No. - 10A, Block - LA, Sector-III. Salt Lake City, Kolkata - 700 098

Consent Letter Number : 0106518 Menio Number: 46-41-00-2/17/0016

Date: 05/07/2017

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to :

M/B. J S W CEMENT LIMITED

(Address of Regd. office/Head/Office/City Office)

Dist: Medini Pore (W), PIN: 721147

(Detailed address of the manufacturing unit)

to operate the industrial unit and to discharge liquid efflorent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table 1 & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

(Member Secretary/Chief Engr/Sr. Env/Engr/Env. Engr/Asst. Env. Engr.) Senior Environmental Engineer W.B. Pollution Control Board

ANNEXURE

Consent to	M/a. J S W CEMENT LIMITED
for its unit at	Vill: Salboni, P.O: SayedPur, via Salboni,
	Dist: MediniPore (W), PIN: 721147

Conditions :

01. This Consent is valid for the manufacture of :-

SI. No.	Name of major products and by-products	Quantity manufactured per month
01	Ground Granulated Blast Furnace	100 000 TDN
02	Slag & Portland Slag Coment	
03	~	
04		
05		-
06		
07		THE OWNERS AND AND ADDRESS
08	WESTRE	NGAL
09	tall and defined or eleven of the second second	Contraction of the local division of the loc
10		Contraction of the local division of the loc
11		X
12	Character and a second	antil Bistoney

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.

07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.

08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

fmand

(Member-Secretary/Chief Engr/Sr. Env. Engr/Snv. Engr/Acast Env.Engn)

Senior Environmental Engineer W.B. Pollution Control Board Continued

Page 03 of 06

CONTRACTOR DE LA CONTRACT

	M/a.	J	S	W	CEMENT	LIMITE	0
insent to	and a second second	uniti	1010		******************	**************	

for its unit at ...

Vill: Salbuni, P.O: Sayadpur, via salboni. Dist: MediniPere (W), PIN: 721147

Table - I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Comestic	pH	Between : 5.5 - 9.0	Yearly
01	Poline o de o	Total Suspended Solids	Not to exceed : 100 mg/1.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed : 30 mg/1.	
_		Biochemical Oxygen Denand (Subj of ar C)	Not to exceed : 250 mg/1.	
		Chemical Oxygen Demand	Not to exceed : 10 mg/1,	
_		Oil & Grease		
-	-	PRESSER TO A PROPERTY OF	11 S.N .	
-	-			
_				
		ALL REALING THE REAL PROPERTY OF THE REAL PROPERTY	WIRL OFCAMILE.	Contraction of the
			5 - 14 - 1 - 1	
			25 1 2.1	
_		The second		
_			and designed to be a set of the s	
2		the second se		
	-			
		1. Starter and the second s		
-		1 (and 1)	-	-
-		Citation and	Same - ILI	-
		and the second		
			11	

- The Applicant falls in the Category of the Water (Prevention 09. and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.
- Daily water consumption for the following purposes should not exceed :-10.
 - Industrial cooling, spraying in mine pits and boiler feed water ۲ (Water used for gardening should be included in this category of use) + _____K1.
 - Domestic purpose
 - Processing whereby water gets polluted and the pollutants are easily biodegradable
 - Processing whereby water gets polluted and the pollutants are not easily biodegradable

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed from and pay the Cess as specified under Section 3 of the said Act.

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(Member Secremy/Chief Engr/Sr. Env. Engr/Engr/Asst Env. Engr.)

Servor Environmental Engineer W.B. Polution Control Board Continued.....

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age 04 of 06

Consent to	M/a. J S W CEMENT LIMITED
for its unit at	Mill: Solboni, P.O: SayedRur, win solboni,
	Dist: Medini Pore (W), PIN: 721147

 The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.

All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this
must be painted/displayed to faciliate identification.

1.3. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Stack No.	Stack height from	Stack attached to (sources and control system,	Volume Nm ³ /hr.	of gas emission				eters not	to exceed	Frequency of emission sampling
	G.L., (in mts.)	if any):	-314 - 202	m/sec	SPM (mg/Nm ³)	(52 v/y)	E.S.			
S-I	50 (8	Grinding Unit - 1	VVIC.	5	30	1-1		1		Half You
S-2	4	HAG 1 No. red 4 TP	Gral	Beneric Official		and and and a	earen Steme			
S\$	50	Cual Mill (20 TPH)	and and a	6383 (2)-	30		TERNIN			Half Yearl
S-4	40	Packing Unit	(2 1100)		30	罪」		1		Half Yearl
S-5	1		No.		翻	a	11×			
8-6		/	1	and will	p. 1	10-				
8-7			1	/						
5-8						-				
5-9							1	/		14170
-10										/

Table - II

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The Press Phase Have Street Street

onsent to	M/B. J S H CEMENT LIMITED	
for its unit at	Vill: Selboni, P.O: Sayedpur, via selboni	
	Dist: Madinipure (W), PIN: 721147	

The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, plutform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.

15 The Applicant shall observe the following fuel consumption pattern :=

SL No.	Type of fuel	Quantity consumed per	month Fuel burning operation where the fuel is used
01	Coal	1334 Tuna	HAG
02			
0.3		No. of Concession, Name	
04			THE AREA IN
05			

 The Applicant shall maintain the generation and treatment I disposal of non-hazardous solid waste as specified below:

Type of waste	Quantity	D Theatment	Disposal
Co al Ash	7 HT/day	and the second sec	- To be used in cement
Dust	50 T/day	and the second s	to be recycled

Metal Waste Solution of the solut

Time 10	Limit in dB(A) L
Day Time (06 a.m. 40/09 p.m.)	75
Night Time (h) p.m. to 06 a.m.	

18. The Applicant shall at all times maintail good house keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nulsance to surrounding cont/inhabitants and to achieve compliance with the terms and conditions of the consent.

19 The Applicant shall bring about at least 33% of the available open land under the green coverage/plantation.

- 20 The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- 21 The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr/Sr, Env. Engr/Engr/Asst. Env. Engr.)

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Page 05 of 06

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Consent to	M/8. J S W CEMENT LIMITED
for its unit at	Vills Salboni, P.Os Sayadpur, via salboni
	Dist: Madinipure (W), PIN: 721147
	and the second

- The Applicant shall maintain a separate register showing consumption of chemicals used in pollation control systems.
- The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27 The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the ourrest year in the prescribed form (Form - V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] Rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Applicant shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board intro diatelytof any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.
- 34 The Applicant shall make an applicant to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment us well as the pollution control system without prior approval of the Board.
- The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989:

(1) The unit should comply with the Environmental clearance Additional Conditions (No.89/EN/T-IL-1/037/2015 dated 14/01/16) (2) The unit should comply with the Gunsent to Establish (Memo no. 133-2%-45/2015 (E) dated 12/02/16) (Member Secretary/Ghiot Engr/Sr. Enk.Engr/Engr/Acst.Env.Engr/

Senior Environmental Engineer W.B. Pollution Control Board

WEST BENGAL POLLUTION CONTROL BOARD

*Paribesh Bhowan', Bldg, No. - 10A, Block - LA, Sector-III, Salt Lake City, Kolkata - 700 098

00106563 Consent Letter Number :... Memo Number 165-41-00-11/17/0016

Date: 18/01/2018

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to :

M/S. J S W CENENT LIMITED

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Vill: Selberi, P.C: SayadPur, vic Salbori,

Management and a second s

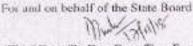
Dist: Macini Pore (W), PIN: 721147

(Detailed address of the manufacturing unit)

to operate the industrial unit and to discharge liquid offluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table 1 & II of this consent letter and in the Environmental (Protection) Act, 1986

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



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(Member Secretary/Chief Engr/Sr. Env. Engr/Env. Engr/Asst Env. Engr.)

ANNEXURE

Consent to	M/a. J S W CENENT LIMITED
for its unit at	Vill: Salbani, P.O: SayedPur, via Salbani,
	Dist: MediniPore (W), PIN: 7 21147

Conditions :

01. This Consent is valid for the manufacture of :-

SI. No.	Name of major products and by-products	Omatin market
01	Ground Granulated Blast	Quantity manufactured per month
02	Furnace slag & Purtland Slog	
03	cement	100000 Tan
04		
05		
06		
07		
08	METOD	
09	VVEST BE	NGAL
10		Non-temporary and the second se
11		Contraction of the local division of the loc
12	Vinners Witching To	

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.

- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst.Env.Engr.)

M/s. J S W CEMENT LIMITED Consent to

for its unit at

Vill: Salbani, P.O: SayedPur via Salbani,

Dist: Medini Pore (W), PIN: 721147

Table - I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Domestic	pH	Between : 5.5 to 9.0	Yearly
		Total Suspended Solids	Not to exceed : 100 mg/1.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed : 30 mg/1.	
-		Chemical Oxygen Demand	Not to exceed : 250 mg/1	
		Oil & Grease	Not to exceed : 10 mg/1.	
	~			
	-			
			T DESCRIPTION OF THE OWNER	
		WEST BE	IGAL	
			and a second	-
			and the second	
		and the second se	1	
		CREATING TRANSPORT		1000

The Applicant falls in the Category of the Water (Prevention 09. and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder,

Daily water consumption for the following purposes should not exceed :-10.

•	Industrial cooling, spraying in mine pits and boiler feed water (Water used for gardening should be included in this category	→ 240 (addi tionak). of use)
	Domestic purpose	
•	Processing whereby water gets polluted and the pollutants are easily biodegradable	
•	Processing whereby water gets polluted and the pollutants are not easily biodegradable	

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed from and pay the Cess as specified under Section 3 of the said Act.

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(Member Socretary/Chief Engr/Sr. Env. Engr./Env. Engr./Asst. Env. Engr.) Indianabated internation ganes

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Page 04 of 06

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this
 must be painted/displayed to facilitate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below.

Stuck No.	Stack height from	Stack attached to (sources and conirol system,	Volume Nm ³ /hr.	Velocity of gas emission	Concentrations of parameters not to exceed		Frequency of emission sampling		
	G.L., (in mts.)	if any):	AREAST	m/sec	SPM (mg/Nm ²)	CO (% v/v)	5506		samping
S-I	50	Unit B	WIE.	01	30	lla,	P	1	
S-2		(Roller Pra & H A G	ss 2 Nos 01 Conl.	firad		por and	-		Nalf=yer
S-3		Pooking un;	.t.		30				
S-4	/	1			THE REAL				
S-5		/	No.	New York		10	80		
S-6			/						
S-7				/					
S-8					1	/			
5.9						1	/		
5-10									

Table - II

(Member Scoretary/Chief Engr/Sr. Env. Engr/Env. Engr/Asst. Env. Engr.)

Page 05 of 06

Consent to M/ 8. J S W CENENT LIMITED

for its unit atVills_Selberts_P.0: SayodPurs_vie Selbert,	1
Dist: Madinipore (W)? PIN: 721147	

- 11. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern :=

SI, No.	Type of fuei	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	1333 Tons	HAG
02	-		
03			
04			
05			

16 The Applicant shall maintain the generation and treatment / disposal of non-hazardous solid waste as specified below :

Type of waste	Quantity	Treatment	Disposal	
Goal Ash	6 MT/day		to be used in coment mfg	Proo
Dust Matel Word Fre	50 Tun/day		to be recyaled	

Time 10	Limit in dB(A) L	
Day Time (06 a.m. 1/19 p.m.)	75	
Night Time p p m. to 06 a.m.	70	
	19	

18. The Applicant shall at all times melatain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause suisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.

10. The Applicant shall bring about at least 33% of the available open land under the green coverage/plantation.

- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

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(Member Secretary/Ghief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Page 06 of 06

Additional Conditions

Cons	entio M/u. 3 5 W CEMENT LINITED
for it	sunitar Vill: Selbani, P.O: Sayedpur via Salbani,
	Dist: Madini Buca (W), File: 7.21107
24.	The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25	The Applicant Shall and the extender of harmridean spectra landbates analyzed at least once in

from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.

26. The Applicant shall provide adequate and safe Includy for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.

 The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form - V) as required under the provision of rule 14 of the Environment (Protection) [Second Amendment] Rules. 1992.

28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.

29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.

30. The Applicant shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.

31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and 7 or canission control devices and for overall environment management of the industry.

32. The Applicant shall have to make registration for the ase of groundwater if any, with Central Ground Water Authority

33. The Applicant shall intimate to the State Board immediately of any occurrence or upprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.

34. The Applicant shall make an applicant to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.

35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.

 The Applicant shall comply with the conditions as hid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

> The unit should comply with the conditions of C F 0 issued vide mame no 46-hl-Co-o/17/0016 dated 25/07/17

> > (Member Seeretary/Chief Engr/Sr. Env. Engr/Env. Engr/Asst: Env. Engr.)

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COST OF ENVIRONMENTAL PROTECTION MEASURES

ITEMWISE BREAKUP OF CAPITAL INVESTMENT & ESTIMATES FOR ENVIRONMENT MANAGEMENT PLAN

Deta	Details of allocation made for environmental management for Cement Plant				
S. No.	Particulars	Capital Investment (Rs.Lakhs)			
1	Process Bag Houses & de-dusting bag filters	1160			
2	Covering of Belt Conveyors & providing covered shed for Gypsum and Coal	272.5			
3	Internal/ approach Roads	1145			
4	Green Belt development	4.4			
5	Rain Water Harvesting	22			
6	Water Sprinklers with pumps, etc.,	3			
7	Noise pollution control	10			
8	Occupational Health Centre	9			
9	Sewage Treatment Plant (STP) in plant premises	25			
	Total	2650.9			

RECURRING COST & ESTIMATES

De	Details of allocation made for Annual cost of monitoring and implementation of control measures for Cement Plant				
S. No.	Particulars	Recurring Cost per annum (Rs. in lakhs)			
1	Maintenance & Operation of pollution control equipment	42			
2	Maintenance & Operation of STP	1			
3	Environmental monitoring	8			
4	Occupational Health & Safety	12			
5	Greenbelt development	5			
6	Socio economic development	25			
7	Misc.	10			
	TOTAL	103			

ANNEXURE-XII

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY Pranisampad Bhavan, Block 'LB'-2, 5th Floor, Sector – III, Salt Lake, Kolkata – 700 106

Telefax No. 033 2335 5246 Website : <u>www.environmentwb.gov.in</u>

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No. 2015 / EN/ T-II-1/002/2017

Date: 07 / 09 /2017

To M/s. JSW Cement Ltd. JSW Centre, MMRDA Ground Bandra Kurla Complex, Bandra (East) Mumbai – 400 051

Subject : Environmental Clearance for the proposed expansion of Cement Grinding Unit from 2.4 to 3.6 MTPA and 2x18 MW CPP at Vill – Salboni, Dist – Paschim Medinipur, West Bengal by M/s. JSW Cement Limited

Sir,

This has a reference to your application submitted on 08/03/2017 and subsequent communications for Environmental Clearance for the proposed expansion of Cement Grinding Unit from 2.4 to 3.6 MTPA and 2x18 MW CPP at Vill – Salboni, Dist – Paschim Medinipur, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, 2006. It is noted that the proposed proposal is for expansion of Cement Grinding Unit from 2.4 to 3.6 MTPA and 2x18 MW CPP at existing unit premises at Vill – Salboni, Dist – Paschim Medinipur, West Bengal. It is noted that clinker will not be manufactured at the site. The manufacturing process will involve only grinding of Cement Clinker with Fly ash/Slag and Gypsum.

It is noted that the salient features of the project, for which Environmental clearance has been considered are as follows :

- i. Location of the Site Salboni, Dist Paschim Medinipur, West Bengal
- ii. Latitude & Longitude 22°34'32.97"N & 87°18'38.70"E
- iii. Land Area Proposed expansion will be installed within existing land area of 133.2 acres.
- iv. Greenbelt 44.0 acres.
- v. Raw Materials Clinker, Fly Ash, Slag, Gypsum, Coal and Pet Coke.
- vi. Production Capacity Existing Capacity 2.4 MTPA & Proposed capacity after expansion 3.6 MTPA (OPC, PPC, PSC & GGBS) & 2X18 MW CPP
- vii. Details of existing and proposed emission sources with Air Pollution Control Devices:

SI. No.	Process Equipment/ Machinery	Existing (2.4 MTPA Cement)		Proposed (3.6 MTPA cement & 2x18 MW CPP)	
		Capacity	APCD	Capacity	APCD
1	Grinding Unit (Roller Press)	4 x 90 TPH	Bag Filter	2 x 90 TPH	Bag Filter
2	Cement & GGBS Storage	3 x 5000 T	Bag Filter	3 x 3000 T & 2 x 1000 T	Bag Filter
3	Blending Unit	450 TPH	Bag Filter	300 TPH	Bag Filter
4	Clinker Storage Silo	1 x 25000 T	Bag Filter	1 x 20000 T	Bag Filter
5	Slag Stacker	2000 TPH	Bag Filter	-	-
6	Packer	3 x 240 TPH	Bag Filter	-	-
7	Hot Air Generator	2 x 4 MCal/Hr	Bag Filter	1 x 1.75 MCal/Hr	Bag Filter

8	Coal Mill for HAG	1 x 20 TPH	Bag Filter	-	-
9	Wagon Tippler	2000 TPH	Bag Filter	12	-
10	Fly Ash Storage Silo (for Cement Plant)	-		1 x 1000	Bag Filter
11	Fly Ash Storage Silo (for CPP)		-	1 x 500 T	Bag Filter
12	Boiler			2 X 90 TPH	ESP and Flue Gas De-Sulphurization (FGD)
13	Coal Crusher (for CPP)	-	- 1	1 x 60 TPH	Bag Filter
14	Coal Coke Stockpile (for CPP)	-	-	2 x 10000 T	Water Sprinkler
15	Coal Stacker (for CPP)	14	-	200 TPH	Bag Filter

viii. Total Water Requirement – 600 KLD (Bore Wells)

- ix. Solid waste All dust generated will be recycled and reused in the process. Fly ash generated from CPP to be utilized in manufacturing of PPC.
- x. Wastewater No process effluent will be generated. Waste water generated from CPP to be treated in suitable ETP and reused within project premises; no process effluent to be discharged outside the project premises and Zero Discharge Principle to be strictly followed. Domestic sewage will be treated in septic tank and soak pit.
- xi. Rainwater Harvesting Rain water storage tank of dimension 100mX100mX4m to be constructed and harvested rainwater to be utilized in-house to minimize withdrawal of groundwater.
- xii. Total Power requirement 27 MW, WBSEDCL.

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI, subject to strict compliance of terms and conditions as mentioned below.

A. SPECIFIC CONDITIONS:

- i. The gaseous emissions from various process 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.
- 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 50m from G.L. should be provided for control of emission from Slag Mill and Hot Gas Generator. Highly efficient Cyclone separators, Pulse Jet Bag Filters & ID Fan should be provided for Raw Material Handling Section, Ball Mill, Silo and Packing Section. Stack emissions shall be monitored at regular intervals and records maintained. The stack emission should not exceed 30 mg/Nm³. For CPP boiler ESP of adequate design and capacity and along with minimum stack height of 30m from G.L. should be provided. The stack emission should not exceed 30 mg/Nm³.
- iii. Regular monitoring of the ambient air quality shall be carried out in and around the plant and records shall be maintained. All care to be taken to maintain the ambient air quality standards as per GSR 826 (E) dated 16.11.2009. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of

Dowh

 PM_{10} , $PM_{2.5}$, SO_2 and NO_2 are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to the SEIAA and the SPCB once in six months.

- iv. The unit shall install Continuous Automatic Ambient Air Quality Monitoring Station (CAAAQMS) for the project.
- v. Finished cement should be collected in silo and packaging should be done through pneumatically controlled system. Suction system should be installed at packaging section to minimize fugitive emission.
- vi. All vibrating screens, storage bins will be adequately covered. Covered storage yards shall be provided for raw materials. Closed unloading of raw materials and closed conveyor belt for transportation with bag filter at transfer points should be provided. Suction head should be provided at all transfer points.
- vii. Adequate dust suppression and extraction system should be provided in material storage areas, material unloading and transfer points for controlling fugitive emission. Fugitive dust emissions from ball mill and storage areas shall be collected in bag filters and recycled back to the process. Water sprinkling arrangement shall be made in the raw material stock yards and other high dust potential areas.
- viii. Water required for proposed expansion shall be met from ground water supply as proposed. 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.
- ix. Process effluent discharge is not permitted. No liquid effluent shall be generated by adoption of dry grinding process.
- x. Clinker manufacturing / heating is not permitted under this environmental clearance. Clinker and fly ash shall be stored in the closed silos and gypsum and slag in covered shed.
- xi. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / reprocessors only. Hazardous waste generated to be disposed of as per provisions of Hazardous Wastes (Management and Transboundary Movement) Rules, 2016.
- xii. Adequate provisions should be made for harvesting rainwater. The harvested water should be used for plantation, firefighting, washing and cleaning etc. Recharging of Groundwater is not permitted.
- xiii. Green belt shall be developed within the plant premises. At least 33% of the area should be kept for green belt development. At least 12500 (as stated in previous environmental clearance vide no. 89/EN/T-II-1/037/2015 dated 14.01.2016) to be planted and maintained in the greenbelt area of 44 acres.. There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.
- xiv. 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).
- xv. Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- xvi. 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.
- xvii.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

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workers shall be done on a regular basis and records maintained as per the Factories Act.

- xviii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xix. All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines for Cement Plants shall be followed and complied.
- xx. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xxi. At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical break-up shall be prepared and submitted. Implementation of such program shall be ensured accordingly in a time bound manner.

B. GENERAL CONDITIONS:

- i. The environmental clearance accorded shall be valid for a period of 7 years for the proposed expansion project.
- ii. Prior Consent-to-Establish (NOC) for the proposed expansion project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
- iii. The project proponent shall comply with all the environmental protection measures and safeguards recommended in the EIA/EMP. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply, sanitation program for local school and health care etc.
- 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 entity.
- 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 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 along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- 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.
- 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 proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, West Bengal.
 - 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 Environmental (Protection) Act. 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
 - x. The Project Proponent should inform the public that the project has been accorded environmental 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

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(http://environmentwb.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.

- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. 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.
- xiii. 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 and Other Wastes (Management and Transboundary Movement) Rules, 2016, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
- xiv. The contact details of the proponent and the name of the consultant are given below -

Name of the Contact person with Designation	Mr. Anil Kumar Pillai, Director & CEO
Address	M/s. JSW Cement Limited JSW Centre, MMRDA Ground Bandra Kurla Complex, Bandra (East) Mumbai – 400 051
Email	ceo.cement@jsw.in
Telephone Number, Fax Number	Phone no. +91 224286 1000, +91 224286 3000
Name of the Consultant	M/s. Development Consultants Pvt. Ltd.

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(Sandipan Mukherjee, IFS) Chief Environment Officer & Member Secretary, SEIAA

Date: 07 / 09 /2017

Copy forwarded to :-

No. 2015 /EN/T-II-1/002/2017/1(4)

- 1. Secretary, SEAC & M.S. WBPCB
- Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
- 3. Chief Inspector of Factories, Factories Directorate, 1, K.S. Roy Road, Kolkata 700 001.
- 4. Guard file / Record file.

Sd/-Chief Environment Officer & Member Secretary, SEIAA

5

Annexure - I

LIST OF TREES PROPOSED FOR PLANTATION

(as mentioned in Environmental Clearance vide no.89/EN/T-II-1/037/2015 dated 14.01.2016)

SI. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	Anthocephalus cadamba	Kadam	500
2.	Peltophorum pterocarpum	Radhachura	500
3.	Polyalthia longifolia	Debdaru	2000
4.	Madhuca longifolia	Mahua	750
5.	Schleichera oliosa	Kusum	350
6.	Alstonia scholaris	Chhatim	2000
7.	Mimusops elengi	Bakul	2000
8.	Terminalia arjuna	Arjun	500
9.	Delonix regia	Gulmohor	250
10.	Bombax ceiba	Simul	500
11.	Acacia auriculiformis	Akashmoni	1000
12.	Ficus benghalensis	Banyan	25
13.	Dalbergia sissoo	Sisoo	1000
14.	Ficus benjamina	Fig Tree	250
15.	Tectona grandis	Teak	250
16.	Ficus religiosa	Ashathwa	125
17.	Cassia fistula	Amaltas	500
		Total	12500

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WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan 10A, Block-LA, Sector-III Bidhannagar, Kolkata-700 098

Dated 15.12.2017

Memo No. 654-2N-45/2015(E)

From : Member Secretary, West Bengal Pollution Control Board



To: M/s. JSW Cement Limited Vill - Salboni, PO-Sajedpur, PS-Salboni, Dist-Paschim Medinipur. Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: 1) Your letter No. JSWCL/CTE-II-11/2017-18 09.11.2017 ii) Environmental Clearance issued by SEIAA vide no. 2015/EN/ T-II-1/002/2017 dated 07.09.2017.

Dear Sira

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s ... JSW Cement Limited

tor manufacturing/storage/installation the proposed expansion of Cement Grinding Unit from 2.4 to 3.6 MTPA and 2x18 MW Cpp at Vill-Salboni, Dist-Paschim Medinipur, West Bengal.

this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and speciel-conditions annexed.

*(OPC, PPC, PSCA & GGBS)

- The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS: 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
- Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
- 3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
- 4. All emission from your factory shall conform to the standards as laid down by this Board.
- 5 No. emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
- E No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/ erected/re-erected without prior approval of this Boam?

NOC NO153376

- 7. You shall comply with
 - (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable. -
 - (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
 - (iii) Environment (Protection) Act, 1986
 - (iv) Environment (Protection) Rules, 1986
 - (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
 - (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
 - (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
 - (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
 - (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
 - (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
 - (xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
 - (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable
- You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government. Departments etc.

SPECIAL CONDITION :

Gross capital investment for the poject is -8.322 crores.

Please refer to Annexure.

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully. Env. Engineer(EIM Cell)

Dated

654-2N-45/2015(E) did. 15.12.2017

Member Secretary, West Bengal Pollution Control Board

Memo No...

Copy forwarded for information to :

- Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolikata 700 001
- Director of Industries/Director of Cottage & Small Scale industries, Gevenment of West Bengal, N. S. Bur ling, Kolkata-700.001
- 3. Guard file, West Bengal Pollution Control Board.
- Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghty R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./Malda R.O./ Asansol Sub-R.O./WBPC Board

Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghiy

Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata 700 098

Satya Chowdhury Indoor Stadium Balurchar Bandh Road Malda-732101 Vill, Panpur S Kalyani Expressiway C P.O. Narayanpur L Dist. 24 Pgs. (N) Block-05 at 40 F Flats Complex M Adjacent to Privambada L Housing Estate P.O. - Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur Asansol Sub-Regional Office Ghanty Mansion (2nd Floor)

60, G. T. Fload

Asansol-713 301

Sahid Khudiram Sarani City Centre, Durgapor-16 Dist, Burdwan

Panbahan Nagar Matigara, Siliguri Dist-Darjosling Bhabani Bhawan 2nd Floor, Alipur Kelkata 700 027

10, Camac Street 2ed Floor Kolkata-700-017

Sr. Env. Engineer(EIM Cell)