

BIHAR CEMENT PLANT

(A Unit of Shree Cement Ltd.)
Jasoia More, BIADA Industrial Growth Centre,
Post/P.S.- Aurangabad (Bihar)-824101, India
Tel.: 06186-292294, 292295, 292296
E-mail Id: shreebcgu@shreecementltd.com
CIN:L26943RJ1979PLC001935

SCL/Bihar/ENV/2019-20/702

Date: 26 Nov 2019 By Speed Post

To,
The Additional Principal Chief Conservator of Forest (APCCF),
Ministry of Environment, Forests & Climate Change,
Regional Office (Ranchi),
Bungalow No. A-2, Shyamali Colony,
Ranchi - 834002

Sub: - Regarding compliance of environment clearance (April-2019 to September-2019) of Clinker Grinding Unit at Aurangabad Industrial Growth Center (Industrial Area), Tehsil & District-Aurangabad, Bihar by M/s Bihar Cement Plant, A Unit of Shree Cement Limited and M/s New Bihar Cement Plant, A Unit of Shree Cement Limited.

Ref: - Environment Clearance letter No. 67/SEIAA/17 dated: 13 June 2017

Dear Sir,

Kindly refer to the above subjected matter and referred EC letter, we are submitting herewith the pointwise compliance report of environment clearance for the period of April-2019 to September-2019.

This is for your kind information.

Thanking you.

Yours faithfully,
For Bihar Cement Plant and New Bihar Cement Plant
(A Unit of Shree Cement Ltd.)

(Gyanendra Mohan Khare) Unit in charge

Copy to:

- 1. The Member Secretary, Bihar State Pollution Control Board, Parivesh Bhawan, Patliputra Industrial Area, Patna-800010 (Bihar)
- 2. The Member Secretary, State Environment Impact Assessment Authority, 2nd Floor, Beltron Bhawan, Shastri Nagar, Jawhar Lal Nehru Marg, Patna 800023 (Bihar)
- 3. The Zonal Officer, Central Pollution Control Board, southernd Conclave, Block 502, 5th & 6th floors, 1582 Rajdanga Main Road, Kolkata 700107.

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Compliance of conditions of "Environment Clearance" of Clinker Grinding Unit at Industrial Growth Centre, Aurangabad, Bihar.

Ref: - Environment Clearance letter No. 67/SEIAA/17 dated: 13 June 2017

Specific Co	onditions:		
Condition No.	EC Condition	Compliance	
1.	SPM from various process units should confirm to the load/mass based standard prescribed in the MoEF and SPCB from time to time. At no time the emission level should go beyond the prescribed standards.	CPCB / MOEF&CC formulated PM emission norms for clinker grinding unit and SO ₂ , NOx & PM for kiln stack. There is no load based standards formulated for clinker grinding unit it is formulated only for kiln stack. Emission level is well within the prescribed norms. Stack emission level is attached herewith a Annexure-1 .	
2.	Cement grinding shall be carried out in closed cement mill. Further, provision of dust extraction and pollution control system consisting of highly efficient bag filter and ID fan should be provide for cement mill, clinker silo, fly ash storage silo, cement silo, wagon and gypsum crushing plant with adequate stack height. Stack emissions shall be monitored at regular intervals and records maintained.	Cement grinding is carried out in closed cement mill. Dust extraction and pollution control system consisting of highly efficient bag filters and ID fan have been provide for cement mills, clinker silo, fly ash storage silo and cement silo. Stack height of Cement mill of Bihar Cement Plant is 42.5 meter and Cement mill of New Bihar Cement Plant is 50.0 meter. Continuous emission monitoring system have installed and online data is going on CPCB server. Emission level is well within the prescribed norms. Stack emission level is attached herewith as Annexure-1 .	
3.	The stack emission from various sources shall not exceed 50 mg/Nm³ as per the MoEF&CC notification G.S.R. 46(E) dated 03-02-2006.	Bag house for cement mills have been installed to maintain PM level to < 30 mg/Nm3. Reports are enclosed as Annexure-1 .	
4.	Transportation of fly ash to the plant should be brought through tankers and stored in silo without any air pollution at transfer point.	Fly ash is being transported in the closed containers and bulkers. It stored in silo and covered hopper only. A photograph is enclosed for your reference.	

5.	Regular monitoring of air quality shall be carried out in and around the plant and records shall be maintained.	Ambient air quality for relevant parameters of clinker grading unit as per NAAQS, 2009 has been carried out by NABL certified lab and self for PM10, PM2.5, SO ₂ & NOx. Results are well within the norms. Copy of the results is attached herewith as Annexure-2 .
6.	Adequate dust suppression and extraction system should be provided in material storage areas, material loading / unloading areas and transfer point for controlling fugitive emission. Fugitive dust emission from ball mill and storage areas shall be collected in bag filters and recycled back to the process.	 To control fugitive emission, following measures are provided: Covered shed (size 194 X 90 Meter) for storage of raw materials Silo for storage for clinker with dust collectors Covered unloading hopper with dust collectors Covered conveyor belts for raw material conveying Cemented roads in movement area Regular deployment of 3 number of Vacuum dust sweeping machines Water sprinkling at main gate (3 rows pipeline with mist nozzle) + 35 sprinklers at various location in plant Bag filters at all material transfer points. There are 69 and 46 dust collectors installed in BCP and NBCP respectively Deployment of water tanker for spraying water on roads.
7.	Regular water sprinkling should be done on the roads inside the plant and other high potential areas to control the fugitive dust emission.	Sprinklers have installed at main gate, unloading area and cement mill area. Water tankers are also being used for spray of water on roads to control the fugitive dust. A mist spray system have installed in 3 rows along the plant boundary wall towards NH-98.
8.	Suction head should be provided at all transfer dust emission.	Dust collectors have been provided at all material transfer points.

9.	Groundwater shall not be abstracted without prior permission of CGWA	CGWA permission obtained and copy of NOC have already submitted.
10.	Clinker manufacturing is not permitted under this EC	Complying with.
11.	Solid waste viz. dust generation shall be properly recycled and reutilized in the process itself.	No solid waste is generated from clinker grinding unit.
12.	The unit must develop a separate water body to harvest rain water so as to use the stored water for serving partial requirement of plant as also to use for plantation, firefighting, washing & cleaning etc.	We have constructed 30000 KL capacity pond (size 167 x 40 x 4.5 meter) in plant area to collect the rain water. The photograph of rain water harvesting pond full with rain water in September 2019 is enclosed for reference. Water is used for recharging the ground water, plantation and dust suppression.
13.	Green belt shall be developed in and around the plant premises. Green belt to be developed at least 33% of the project area. Selection of appropriate species for plantation programme may be done in consultation with the Environment & Forest Dept., Bihar	Green belt have developed in and around the plant premises in more than 33% of the project area. A photograph from front of our CCR is enclosed for reference.
		This monsoon also a plantation drive was organized to develop the green belt in and around the plant. More than 10000 trees/shrubs have planted in this monsoon. • Approx. 1800 tree have planted in
		campus of Institute of Driving and Training Research in BIADA with the

cooperation of district administration in phases.



• 2000 tree have planted in CRPF camp in BIADA with the cooperation of district administration in three phases.

ओरंगाबार के शीआरपीएफ बटालियन मुख्यालय परिसर में बुधवार को पीधरोपण अर्तगान का आयोजन किया गया सीआरपीएफ बटालियन मुख्यालय में लगे एक हजार पौधे

और्टियानार | स्टिट्स्ट्राल प्रतिविधि अग्रैरंगानार के सीआरर्गाएक व्यक्तिमार प्रतिविधि अग्रैरंगानार के सीआरर्गाएक व्यक्तिमार प्रतिवर्ध में व्यक्तिमार प्रतिवर्ध में व्यक्तिमार प्रतिवर्ध में व्यक्तिमार प्रतिवर्ध में व्यक्तिमार अग्रियान के प्रतिवर्ध में व्यक्तिमार में व्यक्तिमार मार्गिक में कर्माव्यक में प्रतिवर्ध में मार्ग्य प्रवाद में प्रतिवर्ध में मार्ग्य प्रवाद में प्रतिवर्ध में मार्ग्य प्रवाद में प्रतिवर्ध में मार्ग्य मार्ग्य में प्रतिवर्ध में मार्ग्य मार्ग्य में मार्ग्य मार्ग्य में मार्ग्य मार्ग मार्ग्य मार्ग्य

एक-एक क्षेत्र केवा उनके वार्त्मण करण मार्ग आरोपीए से कावारिट सीरा भारतीयर के कावारिट सीरा का विशेषी, सारक कार्येंट का विशेषी, मेर कार्या, मेरिक का कित कार प्राचीय, मुक्ता, भारतीयर मंदिर हों, कारण कुमा, स्थितक सीरा कारण कुमा, स्थानक मार्गिट आरोपीए कार्या, भारतीयर सार्विट की सीरा कार्या कारण करियों कारण कुमा, स्थानक सार्विट की सार्वे कारण करिया कारण करियों कारण कुमा, स्थानक सीरा कर पूर्व में सीरा कार्या कर्मी कर पूर्व में सीरा कर्म कर्म मेर्ग कर्म कर्म केवा क्षित्र कारणीयर केवा सार्विट केवा कार्यिक क्षेत्र केवा कर्म कर्मा कुमा, सीरा क्षेत्र केवा क्षारिक केवा क्षार्मिक



भारे सेने करारे निर्माण करारों को स्वान करारे का स्वान कर कर के स्वान कर कि स्वान कर कर कि स्वान क

- 1200 tree have planted along BIADA road and in open available area with cooperation of BIADA.
- 2000 tree have planted along the public road in nearby of plant, on the bank of pond in Jasoia village and other available open space in nearby.
- Approx. 3000 tree/shrubs/hedge have planted inside the plant area.

Ambient Noise level 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 level should confirm to the standards prescribes under EPA Rules, 1989 viz 75 dB (A) (day time) and 70 dB

Noise level is being monitored at the plant boundary as well as inside the plant premises. Results are well within the norms. Copy of the results is attached herewith as **Annexure-3**.

	(A) (Night) and its subsequent amendments.	
15.	Generators must be housed in acoustic enclosure and should meet the CPCB norms	2x500 KVA latest noise less DG sets are installed. They have inbuilt acoustic enclosure. These are operated only during the grid power failure for plant lighting purpose. As per the CPCB norms, stack height is being maintained. DG Set emission level is attached herewith as Annexure-4 .
16.	All internal roads should be concreted / pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicle movements. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should confirm to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises. Solar lighting should be used as far as practicable	All movement area and roads are cemented. A photograph is enclosed for the reference. Proper lighting and pathway have been made to ensure safe vehicle movements. Vehicles are checked to confirm the PUC certificate. PUC certificate of few vehicles are enclosed here with for your kind reference as Annexure-5 . We had installed the Solar lights but solar lights are not feasible in plant area as the lux level / illumination is not meeting the industrial safety norms. Hence lights were removed from the working area.
17.	Health and safety of workers should be ensured. Workers should be provided with adequate PPE and sanitation facilities. Occupational Health Surveillance of the workers shall be done on regular basis and records maintained as per the Factories Act.	Personnel protective equipment have been provide to all. Proper sanitation facilities have been developed at site. Every worker is being examined as per the Factories Act. Report of few workers is enclosed as Annexure-6 for reference.
18.	Adequate measures to be adopted to ensure industrial safety.	Safe practices are being followed as per the industrial safety norms.
19.	The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.	Complying.
20.	No civil construction shall be constructed below the high tension wire passing through the proposed site of unit.	Complying.

21.	Follow all the safety measures as per The Indian Electricity rules, 1956 & its amendment.	Complying.		
Conoral	Conditions:			
1.	The project proponent shall be comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake social-economic development activities in the surrounding villages like community development programmes, educational programmes and health care etc.	have been implemented. A covered shed for storage of gypsum, coal, pet coke and slag has been constructed. Social welfare activities in the nearby area is going on. In FY 2019-20 (April to September)		
2.	All the condition, liabilities and legal provisions contained in the E.C. 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 entry.	Complying with all EC conditions.		
3.	All the laborers to be engaged for construction work should be screened for health and adequately treated before issue of work permits	Complying with		
4.	The project proponent should make financial provision in the total budget of the project for implementation of environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Total capital cost of pollution control equipment is given as below: 1. Dust collectors in BCP Rs. 4.5 Cr. 2. Bag house in BCP, Rs 3.5 Cr 3. Dust collectors in NBCP Rs. 3.0 Cr 4. Bag house in NBCP, Rs. 3.95 Cr 5. Covering of conveyor belts Rs. 0.5 Cr 6. Sweeping m/c, Rs 0.40 Cr 7. Covered shed with wind breaking wall, Rs 5.0 Cr 8. Concreting roads Rs. 5.25 Cr. 9. Water harvesting pond and structures, Rs. 0.10 Cr 10. Water sprinkling arrangement Rs. 0.03 Cr 11. Water metering and level measurement indicators, Rs. 0.03 Cr 12. STP Rs. 0.30 Cr 13. Plantation, Rs. 0.80 Cr 14. Dispensary, Rs. 0.30 Cr. 15. Env Lab Equipment, Rs. 0.10 Cr 16. CEMS, Rs. 0.10 Cr. 17. Water tanker with trolly: Rs. 0.06 Cr		

		Recurring expenditures during year April 2019 to September 2019 is given as below: 1. Maintenance & up gradation of air pollution control measures: 0.08 Cr 2. STP operation & maintenance: 0.025 Cr 3. Water sprinkling: 0.035 Cr 4. Plantation: 0.14 Cr 5. PPEs: 0.052 Cr 6. Medical: 0.08 Cr 7. Operation of vacuum machine: 0.10 Cr 8. Housekeeping labors: 0.41 Cr 9. Env lab & CEMS: 0.06 Cr 10. CSR: 0.53 Cr
5.	The project proponent directed to deposit	The Copy of bank guarantee and CSR schedule
	10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar and details along with the time schedule for implementation shall be prepared and submitted to the SEIAA, Bihar.	submitted to the SEIAA Bihar, have already submitted.
6.	No further expansion or modification in the plant should be carried out without prior approval of the SEIAA.	Agreed to take prior approval for further any change in the scope of from the concerned authority.
7.	The SEIAA, Bihar 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 monitoring data along with statistical interpretation shall be submitted to the BSPCB and SEIAA, Bihar regularly. This report shall be also put on the website of the company and also regularly be updated.	Full co-operation is being extended to the officials of the SEIAA, BSPCB and MoEF&CC during inspection. Six monthly compliance reports & monitoring data along with statistical interpretation (Annexure – 1, 2 & 3) is being submitted to State Environment Impact Assessment Authority, Regional Office of MoEF & CC, Central Pollution Control Board and State Pollution Control Board. It's also posted on the website of the Company.
8.	In case of any changes in the scope of project, the project would require a fresh appraisal by SEIAA.	Agreed to comply with.
9.	The project proponent should inform the public that the project has been accorded environmental clearance by SEIAA and copies of EC letter are available with SEIAA Secretariat and also be seen at website. This should be advertised by the project	Informed the public by giving advertisement in two newspapers namely Naw Bihar Times and Parbhat Khabar dated 17/6/2017. Copy of the same has been submitted to SEIAA, Bihar.

	T	
	proponent within seven days from the	
	widely circulated in the region of which one	
	shall be in vernacular language of the	
	locality concerned.	
10.	Prior consent to establish (NOC) for the	Complying.
	proposed project must be obtained from	
	BSPCB before commencement of	
	construction. All other statutory clearance	
	should be obtained by project proponent	
	from the competent authorities.	
11.	The EC accorded shall be valid for a period	Complying with.
11.	of 7 years for the proposed project. The	Public Liability Insurance Act, 1991 is
		=
	above stipulations would be enforced along	applicable to provide immediate relief to the
	with those under the Water act, Air act,	person affected by accident involving
	Environment (Protection) Act, 1986, The	hazardous substance. In the clinker grinding
	HWMH rules, 1989, the Public Liability	unit no hazardous substance is handled, hence
	Insurance Act, 1991, the EIA notification,	it is not applicable.
	2006 and their amendments.	
12.	Any appeal against this EC shall lie with the	Noted.
	NGT, if preferred within a period of 30 days	
	as prescribed under section 16 of the NGT	
	Act, 2010.	
Other Po	pints	
1.	The responsibility for implementation of	Agreed to comply with.
	environmental safeguards rest fully with	
	the project proponent.	
2.	The authority reserves the right to add any	Noted.
	new condition or modify the above	
	conditions or to revoke the clearance if	
	conditions stipulated above are not	
	implemented to the satisfaction of	
	authority. If that be so, legal action as per	
	the provisions of Environment (Protection)	
	Act, 1986.	
3.	The EC accorded shall be valid for the	It is only clinker grinding unit. Production is
J.	period of grant of lease for the mine. The PP	within the permitted capacity.
	shall not increase production rate and alter	within the perimeted capacity.
	lease area during the validity of EC.	Production of Bihar Cement Plant:
	lease area during the validity of Ec.	April' 19 – September' 19: 1014860 MT
		April 19 – September 19: 1014600 MT
		Production of New Bihar Cement Plant:
	In case of any deviation or elements in the	April' 19 – September' 19: 781653 MT
4.	In case of any deviation or alteration in the	Noted.
	project proposed from those submitted to	
	SEIAA, Bihar for clearance, a fresh reference	
	should be made to SEIAA to assess the	
	adequacy of the conditions imposed and to	
1	incorporate any new conditions if required.	

5.	The above stipulations would be enforced	Noted and complying with.		
	among others under the Water act, 1974,	Public Liability Insurance Act, 1991 is		
	Air act, 1981, the Environment (Protection)	applicable to provide immediate relief to the		
	Act, 1986, The HWMH rules, 2008, the	person affected by accident involving		
	Public Liability Insurance Act, 1991, along	hazardous substance. In the clinker grinding		
	with their amendments and rules made	unit no hazardous substance is handled, hence		
	their under and also any other orders	it is not applicable.		
	passed by the Hon'ble Supreme Court of			
	India/ High Court of Bihar and any other			
	court of Law relating to the subject matter.			
6.	Any appeal against this EC shall lie with the	Noted.		
	NGT, if preferred, within a period of 30 days			
	as prescribed under section 16 of the NGT			
	Act, 2010.			

Annexure - 1

Statistical interpretation of Stack emission Monitoring Report April' 2019 – September' 2019

S. No.	Location/ Month	Pollution Control Measures	PM (mg/Nm³) Cement Mill, BCP	PM (mg/Nm³) Ball Mill, BCP	PM (mg/Nm³) Cement Mill, NBCP
01.	Apr-19	Bag House	16	22	22
02.	May-19	Bag House	20	22	17
03.	June-19	Bag House	18	21	15
04.	July -19	Bag House	18	20	24
05.	Aug -19	Bag House	21	21	22
06.	Sep -19	Bag House	21	21	18
	Min	imum	16	20	15
Maximum			21	22	24
	Me	dian	19	21	20

Amorexure -1

Head Office: 122 C, Aastha Road No. 5 A Patliputra Colony PATNA - 800 013 (Bihar)



Laboratory Address:-01ST FLOOR, RAJHANS NIKETAN, NEAR CANAL, RUKUNPURA, BAILEY ROAD, PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel.: 0612 - 2241638 / 2263538 E.mail.: sthpatna1@yahoo.co.in



RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986 (VALID UP TO OCT. 2024), BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD & ACCREDITED BY NABL

TEST REPORT

[a] Name and address of the Customer		Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt: 24.04.2019 BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar				
[b] Report to be submitted to			Head			
[c] Details of Sample		Moni	toring of Stack E	mission		
[d] Sample Collected by			A TEST HOUS			
[e] No. & Type of Container		Thim	ble & Glass Imp	pinger		
[f] Items required to be tested		As p	er request			
[g] Whether any specific Method been suggested by the party	of Test has					
[h] Date of receiving the sample		15.10	0.19			
Parameters	Λ	Metho	d of Test	Results		
Stack Connected to				Cement Mill Bag	g House	
2. Height of Stack (as reported)				42.5 m.		
3. Dia of Stack at Top (as report	ed)			2.8 m.		
4. Draft				ID Fan		
Material of Construction				M.S.		
6. Ambient Temperature, °C				27.0		
7. Flue Gas Temperature, ⁰ C				86.0		
8. Velocity, m/sec.	IS	1125	5 (Part-3)	8.8		
9. Atmospheric Pressure, mm. H				751.53		
10. Moisture (%)				1.3		
11. Volumetric Flow, NM ³ /hr.			101000000000000000000000000000000000000	161842.5		
12. Sampling Point				29.6 m.		
			Concentration (mg/NM³)	Concentration	Limit as per E (P) Rules	
13. Particulate Matter (P.M.)	IS 112 (Part-	AND DESCRIPTION OF THE PARTY OF	20.1	21.52	30.00 mg / NM³	



This report applies only to sample tested as above.

Total Liability of our Laboratory is limited to invoiced amount.

Test Report endorsed only the tests and not the product certificate.

Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.

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PATNA – 800 013 (Bihar)



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Tel.: 0612 – 2241638 / 2263538 E.mail.: sthpatna1@yahoo.co.in



RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986 (VALID UP TO OCT. 2024), BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD & ACCREDITED BY NABL

TEST REPORT

[a] Name and address of the Customer		Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt: 24.04.2019 BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar				
[b] Report to be submitted to		Contraction of the last of the	Head			
[c] Details of Sample		Mon	itoring of Stac	k Emis	ssion	
[d] Sample Collected by		SHI	VA TEST HO	USE	on 14.10.19	
[e] No. & Type of Container		Thin	nble & Glass	Impin	ger	
[f] Items required to be tested		Asp	er request			
[g] Whether any specific Meth been suggested by the part;		No				
[h] Date of receiving the samp	le	15.1	0.19			
Parameters	M	ethod	of Test		Results	
Stack Connected to					Ball Mill Bag He	ouse
2. Height of Stack (as reported	d)			39 m.		
Dia of Stack at Top (as repor	ted)			1.6 m.		
4. Draft				ID Fan		
Material of Construction				M.S. 27.0 84.0		
6. Ambient Temperature, ⁰ C						
7. Flue Gas Temperature, ⁰ C						
8. Velocity, m/sec.	IS	11255	(Part-3)		9.2	
9. Atmospheric Pressure, mm	. Hg			751.54		
10. Moisture (%)				1.8		
11. Volumetric Flow, NM ³ /hr.		13/000		55558.18		
12. Sampling Point					31.4 m.	
	10 10 10 10 10 10 10 10 10 10 10 10 10 1		Concentrat	100000000000000000000000000000000000000	Concentration through CEMS (mg/NM³)	Limit as per E (P) Rules
15. Particulate Matter (P.M.) IS 112: (Part-		100000000000000000000000000000000000000	18.9		20.6	30.00 mg / NM³



This report applies only to sample tested as above.

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SHIVA TES

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TEST REPORT

a] Name and address of the Customer		BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar				
[b] Report to be submitted to		Unit Head				
[c] Details of Sample		Monitoring o	f Stack Emission			
[d] Sample Collected by		SHIVA TEST	T HOUSE on 14.1	0.19		
[e] No. & Type of Container		Thimble & G	lass Impinger			
[f] Items required to be tested		As per reque	est			
[g] Whether any specific Method of 3 been suggested by the party	Γest has	No				
[h] Date of receiving the sample		15.10.19				
Parameters	hod of Test Results					
Stack Connected to			Coal	Mill Bag House		
Height of Stack (as reported)			35.5 m.			
3. Dia of Stack at Top (as reported)	5		1,2 m.			
4. Draft			ID Fan M.S.			
5. Material of Construction						
6. Ambient Temperature, °C			27.0			
7. Flue Gas Temperature, ⁰ C				89.0		
8. Velocity, m/sec.	IS 11	255 (Part-3)	8.4			
9. Atmospheric Pressure, mm. Hg				751.56		
10. Moisture (%)				1.2		
11. Volumetric Flow, NM³/hr.			28139.84			
12. Sampling Point				21.7 m.		
			Concentration (mg/NM³)	Limit as per E (P) Rules		
13. Particulate Matter (P.M.)	IS 11	255 (Part-1)	21.4	30.00 mg / NM ³		



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Head Office: 122 C, Aastha Road No. 5 A Patliputra Colony PATNA - 800 013 (Bihar)



Laboratory Address:-01st FLOOR, RAJHANS NIKETAN, NEAR CANAL, RUKUNPURA, BAILEY ROAD, PATNA - 800 014 (BIHAR)

SHIVA TEST

Tel.: 0612 – 2241638 / 2263538 E.mail.: <u>sthpatna1@yahoo.co.in</u>



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TEST REPORT

[a]	Name and address of the Customer			NEW BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar				
[b]	Report to be submitted to			t Head				
[c]	Details of Sample		Mor	nitoring of Sta	ck En	nission		
[d]	Sample Collected by		SHI	VA TEST HO	DUSE	on 14.10.19		
[e]	No. & Type of Container		Thir	mble & Glass	Imp	inger		
[f]	Items required to be tested		Ası	per request				
[g]	Whether any specific Method of T been suggested by the party	Γest has	No					
[h]	Date of receiving the sample		15.	10.19				
	Parameters	Meth	od o	of Test		Results		
1.	Stack Connected to				Cement Mill Bag House (NBCP)			
2.	Height of Stack (as reported)					50.0 m.		
3.	Dia of Stack at Top (as reported)				4) m.	
4.	Draft					ID Fan		
5.	Material of Construction					M.S.		
6.	Ambient Temperature, °C					27.0		
7.	Flue Gas Temperature, ⁰ C					83.0		
8.	Velocity, m/sec.	IS 112	255	(Part-3)		9.7		
9.	Atmospheric Pressure, mm. Hg					751.51		
10.	Moisture (%)					1.5		
11.	Volumetric Flow, NM ³ /hr.					367138.7		
12.	Sampling Point					42.5 m.		
				Concentrat (mg / NM		Concentration through CEMS (mg/NM³)	Limit as per E (P) Rules	
14.	Particulate Matter (P.M.)	IS 11255 (Part-1)		17.2		19.41	30.00 mg / NM ³	



Quality Manager / Dy. Quality Manager

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Annexure – 2

Statistical interpretation of Ambient Air Quality Monitoring Report April' 2019 – September' 2019

S.	Location/	Plant	bounda	ry tow	ards	Plant	bounda	ry tow	ards		bounda		
No.	Month		Host	tel			Main (Gate		Wate	er Harve	sting P	ond
		PM ₁₀	$PM_{2.5}$	SO_2	NO_x	PM_{10}	$PM_{2.5}$	SO_2	NO_x	PM_{10}	$PM_{2.5}$	SO_2	NO_x
01.	Apr-19	60	26	10	21	64	29	11	24	55	23	9	16
02.	May-19	58	29	12	22	61	31	9	29	51	25	7	12
03.	June-19	58	33	9	27	58	31	14	31	56	28	7	14
04.	July -19	56	32	11	23	59	30	12	33	52	24	10	23
05.	Aug -19	51	28	8	20	56	29	8	24	46	25	9	19
06.	Sep -19	48	24	6	19	52	26	6	21	42	20	5	15
Mini	mum	48	24	6	19	52	26	6	21	42	20	5	12
Max	imum	60	33	12	27	64	31	14	33	56	28	10	23
Med	ian	57	28.5	9.5	21.5	58.5	29.5	10	26.5	51.5	24.5	8	15.5

Amorexure -2

Head Office: 122 C, Aastha Road No. 5 A Patliputra Colony PATNA - 800 013 (Bihar)



Laboratory Address:-01st Floor, Rajhans Niketan, Near Canal, Rukunpura, BAILEY ROAD, PATNA - 800 014 (BIHAR)

Authorized Signatory Quality Manager / Dy. Quality Manager

Tel.: 0612 - 2241638 / 2263538 E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

[a]	Name and address of the	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd. Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar					
[b]	Report to be submitted to				TOT , DINIC		
[c]	Details of Sample		Unit Head	g of Ambie	nt Air Qual	itve	
[d]	Sample Collected by			ST HOUSE			
[e]	No. & Type of Container			r; Glass Im		9	
[f]	Items required to be tested		As per req		pinger		
[9]	Whether any specific Methods that has been suggested	od of	No No	uest		### 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
[h]	Date of receiving the samp	ole	15.10.19				
				Sampling	Station		
	Parameters	Method of Test	Near Colony	Roof of Transport Office	Near Boys Hostel	Limit as NAAQS Nov.'2009	
1. Pa	articulate Matter (PM ₁₀), μg/m ³	IS 5182 (Part-23)	69.5 59.7 54.3	94.4 90.2 84.6	63.2 55.7 54.8	100 µg / m³	
2. Pa	articulate Matter (PM _{2.5}), µg / m³	СРСВ	40.1 35.0 28.4	49.2 46.0 41.5	35.4 29.1 26.6	60 µg / m³	
3. Su	llphur Dioxide as SO ₂ , μg / m³	IS 5182 (Part-2)	8.6 9.7 5.4 8.4 8.8 7.4	13.8 15.0 12.1 12.5 11.1 10.2	9.6 7.2 8.1 7.4 9.1 8.1	80 µg / m³	
4. Nitrogen Dioxide as NO ₂ , μg / m³ Is		gen Dioxide as NO ₂ , μg / m ³ IS 5182 (Part-6) 37.4 29.0 27.5 30.4		56.4 58.9 61.4 53.9 50.5 48.8	33.1 34.9 27.9 25.6 24.1 27.3	80 µg / m ³	
24 Hrs.	Average Value						
	PM ₁₀		61.2	89.7	57.9		
	PM _{2.5}		34.5	45.6	30.4		
	SO ₂		8.1	12.4	8.3		
	NO ₂	PRESTY	32.1	55.0	28.8		

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Annexure - 3

Statistical Interpretation of Noise Level (in Leq-dB (A) Monitoring Report April' 2019 –September' 2019

S. No.	Location mai		ndary towards Plant boundary towards Plant boundary towards te / NH - 98 reclaimer Area Water Harvesting Po				•
	Month	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
01.	Apr-19	65.6	55.4	64.8	58.4	57.8	50.8
02.	May-19	65.9	54.3	63.9	58.6	57.5	54.1
03.	June-19	65.4	55.8	62.7	56.9	56.1	53.3
04.	July -19	67.8	56.5	62.9	57.5	56.3	51.9
05.	Aug -19	66.6	57.8	62.1	57.3	58.3	50.5
06.	Sep -19	65.4	56.8	61.6	56.8	54.9	53.2
Minimum		65.4	54.3	61.6	56.8	54.9	50.5
Maximum		67.8	57.8	64.8	58.6	58.3	54.1
	Median	65.8	56.2	62.8	57.4	56.9	52.6

Aproxexure -3

Head Office: 122 C, Aastha Road No. 5 A Patliputra Colony PATNA – 800 013 (Bihar)



Laboratory Address:-01^{5T} FLOOR, RAJHANS NIKETAN, NEAR CANAL, RUKUNPURA, BAILEY ROAD, PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel.: 0612 - 2241638 / 2263538 E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

[a]	Name and address of the Customer	Inc	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar		
[b]	Report to be submitted to	Un	it Head		
[c]	Details of Sample	Mo	mitoring of Ambient Noise Level within factory periphery		
[d]	Monitored by	Sh	Shiva Test House on 14.10.19		
[e]	Items required to be tested	As	per Instruction		
[f]	Whether any specific Method of Test had been suggested by the party	s No			
	Monitoring Location		Time Weighted Average (TWA) of Noise Level (Daytime) in dB(A)		
1.	Near ADM Building		66.7		
2.	Near Main Gate		70.4		
3.	Near Transport Office		72.6		
<u>N.B.:</u>	is 55.0 dB(A) & for Silence Zone is	75.0 d 50.0 dB	ect of Noise as per Noise Pollution (Regulation and Control) fB(A), for Commercial area is 65.0 dB(A), for Residential area (A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the e noise level exceed the ambient noise standards by 10 dB(A) or		



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Assocxure -4

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TEST REPORT

[a] Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar					
[b] Report to be submitted to	Unit Head					
[c] Details of Sample	Monitoring of Stack	Emission				
[d] Sample Collected by	SHIVA TEST HOU	ISE on 14,10,19				
[e] No. & Type of Container	Thimble & Glass Ir					
[f] Items required to be tested	As per request					
[g] Whether any specific Method of Test has been suggested by the party	No					
[h] Date of receiving the sample	15.10.19					
Parameters	Method of Test	Results				
Type of Fuel		Diesel D.G. Set (500 KVA)Super Nov				
2. Stack Connected to						
Height of Stack (as reported)						
4. Dia of Stack at Top (as reported)		0.15 M Natural M.S. 27.0				
5. Draft						
6. Material of Construction						
7. Ambient Temperature, °C						
8. Flue Gas Temperature, °C		17	72.0			
9. Velocity, m/sec.	IS 11255 (Part-3)		3.6			
10. Atmospheric Pressure, mm. Hg		75	1.51			
11. Volumetric Flow Rate (NM³/hr.)			6.19			
12. Sampling Point			p of Exhaust			
		Concentration (mg/NM³)	Limit as per E(P) Rules*			
13. Particulate Matter (P.M.)	IS 11255 (Part-1)	41.4	75.00 mg / Nm ³			
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	197.1	710.00 mg / Nm ⁵			
15. Carbon Monoxide as CO	IS 13270 / 1992	38.0	150.00 mg / Nm ³			
16. Non Methanic Hydrocarbons (as C)	CPCB	27.0	100.00 mg / Nm ³			

This report applies only to sample tested as above S NIII

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Authorized Signatory Quality Manager / Dy. Quality Manager

SHIVA TEST HOUSE

Tel.: 0612 - 2241638 / 2263538 E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

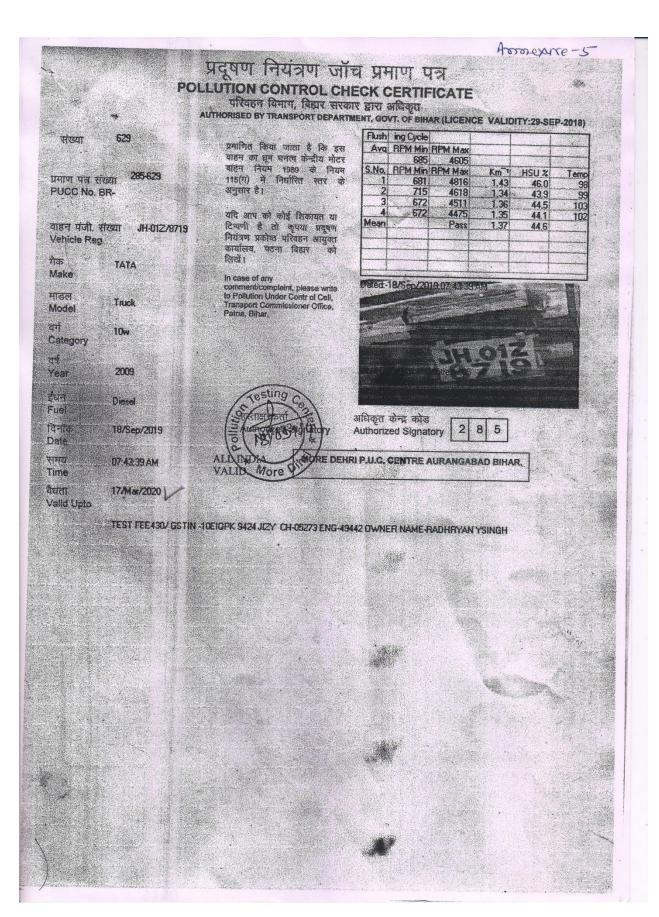
[a] Name and address of the Customer	BIHAR CEMENT PLANT(A unit of Shree Cement Ltd.) Industrial Growth Centre; Jasoiya More AURANGABAD – 824 101; Bihar				
b] Report to be submitted to	Unit Head				
c] Details of Sample	Monitoring of Stack	Emission			
d] Sample Collected by	SHIVA TEST HOU				
e] No. & Type of Container	Thimble & Glass In	npinger			
f] Items required to be tested	As per request				
g] Whether any specific Method of Test has been suggested by the party	No		Family Comments		
h] Date of receiving the sample	15.10.19				
Parameters	Method of Test	Results			
Type of Fuel		Diesel			
2. Stack Connected to		D.G. Set (500	KVA) Supernova		
Height of Stack (as reported)		12.1 M 0.15 M Natural			
Dia of Stack at Top (as reported)					
5. Draft					
Material of Construction	Trial (a)	M.S.			
7. Ambient Temperature, °C		2	7.0		
3. Flue Gas Temperature, ⁰ C		16	37.0		
Velocity, m/sec.	IS 11255 (Part-3)	8	3.3		
0. Atmospheric Pressure, mm. Hg		75	1.54		
1. Volumetric Flow Rate (NM³/hr.)		35	7.43		
2. Sampling Point		From the to	p of Exhaust		
		Concentration (mg/NM³)	Limit as per E(P) Rules*		
Particulate Matter (P.M.)	IS 11255 (Part-1)	43.7	75.00 mg / Nm ³		
4. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	182.1	710.00 mg / Nm ³		
5. Carbon Monoxide as CO	IS 13270 / 1992	45.0	150.00 mg / Nm ³		
ar carcon monoxido do co					

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Reg. No.: AUR/CE/053/LAB/2014

SAKSHI Diagnostic & Research Centre

(An ISO 9001:2008 Certified)

Name:	Mr.Pawan kr.Singh.	Age /sex	43 Years/M
Referred by:	Shree Cement Ltd.	Date :	20.07.2019

Parameters	Resul	İt	Limit
White Blood Cell	8.0	x 10*9/l	4.0-10.0
Lymphocyte %	20.1	%	20.0-40.0
Mid-sized cell %	8.3	%	1.0-15.0
Granulocyte %	71.6	%	50.0-70.0
Lymphocyte	1.6	x10*9/l	0.6-4.1
Mid-sized cell	0.7	x 10*9/I	0.1-1.8
Granulocyte	5.7	x 10*9/I	2.0-7.8
Red Blood Cell	4.48	x10*12/l	3.50-5.50
Hemoglobin	12.8	g/dl	11.0-16.0
Hematocrit	39.7	%	36.0-48.0
Mean Corpuscular (erythrocyte) Volume (MCV)	85.2	fl	80.0-99.0
Mean Cell Hemoglobin (MCH)	25.3	pg	26.0-32.0
Mean Cell Hemoglobin Concentration (MCHC)	33.2	g/dl	32.0-36.0
Red Blood Cell (erythrocyte) Distribution Width	89.7	fl	37.0-54.0
Standard of Variation (RDW-SD) Red Blood Cell (erythrocyte) Distribution Width Coefficient of Variation (RDW-CV)	14.8	%	11.5-14.5
Platelet Group	194	x 10*9/I	100-300
Mean Platelet Volume	10.1	fl	7.4-10.4
Platelet Distribution Width	16.7	%	10.0-17.0
Plateletcrit	0.20	%	0.10-0.28
P-LCR	43.5	%	13.0-43.0



M.D. (Pathology)

Note: If there is Disparity with clinical setting, please contact immediately to lab Kunda House, M.G. Road, Aurangabad, Bihar-824101 Email: sakshidigital2013@gmail.com, Mobile: +91-9199653581



Patient Name	:Mr.Pawan kr.Singh.	Age/Sex	: 43 Years/M
Test	: Lipid Profile	Referred By	: Shree Cement Ltd.
Sample Collec	ted on: 20.07.2019	Date of Repo	orting: 20.07.2019

TEST NAME	VALUE	UNITS	NORMAL RANGE
Cholesterol Total	165.13	mg%	50-200
Cholesterol HDL-Direct	44.90	mg%	3580
Triglycerides	100.60	mg%	25-160
LDL Cholesterol	76.50	mg%	85-130
VLDL Cholesterol	24.52	mg%	5-40
TC/HDL Cholesterol Ratio	3.71	mg%	3.0-5.0
LDL/HDL Ratio	1.40	mg%	1.5-3.5
BLOOD SUGAR(R)	110.46	mg/dl	100-140



M.D. (Pathology)

Note: If there is Disparity with clinical setting, please contact immediately to lab Kunda House, M.G. Road, Aurangabad, Bihar-824101 Email: sakshidigital2013@gmail.com, Mobile: +91-9199653581

RECORDERS & MEDICARE SYSTEMS

181/5, Phase-I, Industrial Area, Chandigarh-160002

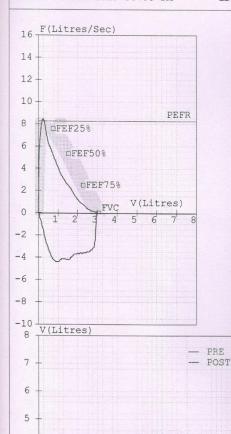
Patient: PAWAN KUMAR SINGH Refd. By: SHREE CEMENT LIMITED

Pred.Eqns: RECORDERS Date : 20-Jul-2019 06:08 PM Age : 43 Years Height: 163 Cms Weight: 75 Kgs

ID: 126

Gender Smoker : No Eth. Corr: 100 Temp :



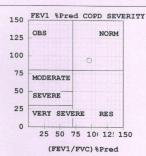


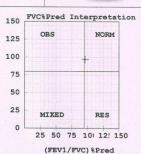
3

2

1

0





Spirometry (FVC Results) Parameter Pred M. Pre %Pred M. Post %Pred %Imp FVC 03.06 02.98 097 (L) FEV1 (L) 02.49 02.34 094 FEV1/FVC 81.37 (%) 78.52 096 FEF25-75 (L/s) 03.67 02.00 054 PEFR (L/s)08.25 08.39 102 FIVC 02.97 (L) FEV.5 01.85 (L) FEV3 02.97 (L) 02.84 096 PIFR (L/s)04.34 FEF75-85 (L/s) 00.50 ----FEF.2-1.2(L/s) 06.33 05.08 080 FEF 25% (L/s) 07.58 05.14 FEF 50% (L/s) 05.35 02.49 047 ---FEF 75% (L/s) 02.50 00.80 032 FEV.5/FVC 62.08 FEV3/FVC (8) 97.06 95.30 098 FET (Sec) 04.90 ExplTime (Sec) 00.03 Lung Age (Yrs) 043 046 107 FEV6 03.06 (L) FTF25% (L/s) 03.53 FIF50% 04.15

04.20

Pre Test COPD Severity Test within normal limits

(L/s)

(L/s)

FIF75%

Pre Medication Report Indicates Early Small Airway Obstruction as FEF 25-75 %Pred or PEFR %Pred < 70 Spirometry within normal limits as (FEV1/FVC) %Pred >95 and FVC%Pred >80.

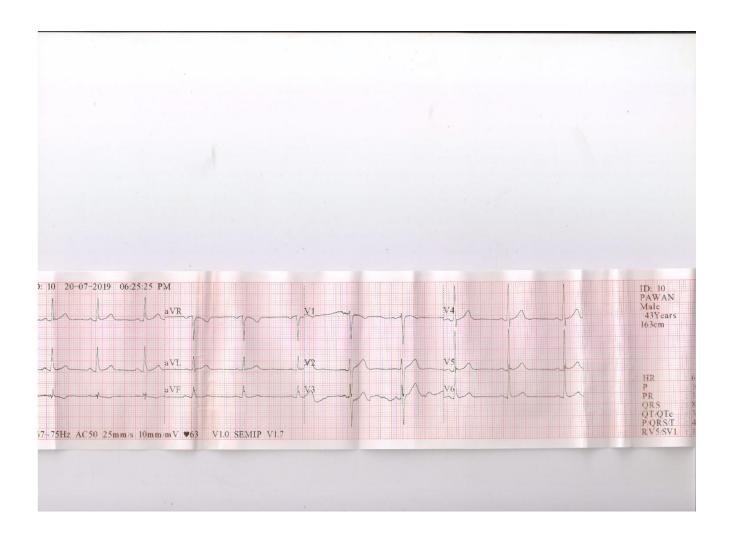
T (Seconds)

DEENE FVC

DR ASIT RANJAN

The contents of this report require clinical co-relation before any clinical action.

http://www.rmsindia.com @ RMS Spirometer (Helios v3.1.85)



Shree Foundation Trust

BCP & NBCP

Samaj Sewa Expenses (CSR)

Expenses from April-2019 to Sep-2019

SI.NO	Section VII of Comapanies Act,2013	Amount
1	Eradicating hunger, poverty and malnutrition, promoting preventive health care and sanitation and making available safe drinking water	170000
2	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly, and the differently abled and livelihood enhancement projects.	14561
3	Ensuring environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agroforestry, conservation of natural resources and maintaining quality of soil, air and water.	590000
4	Protection of natural heritage, art and culture including restoration of buildings and sites of historical importance and work of art, setting up of public libraries, prmotion and development of traditional arts and handicrafts	394248
5	Training to promote rural sports, nationally recognized sports, paralympic sports and Olympic sports	275000
6	Contribution towards Chief Minister Relief Fund	3100000
7	Rural Development Project	709080
	Total Amount	5252889