

COMPLIANCE AUDIT REPORT

Client : Bhavya Cements Limited
Project : Cement Plant and Captive Limestone Mines
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Reference : Environmental Clearance issued by MOEFCC vide no F.No. J-11011/1186/2007-IA-II(I) dated 22.09.2008 & F.No J-11011/1186/2007-IA II(I) dated 3.03.2016

The compliance to the Conditions of Environmental Clearance issued vide above reference are Audited by B. S. Envi-Tech (P) Ltd, NABET, QCI Accredited Environmental consultant Vide Accreditation No. NABET/EIA/1619/SA064 based on the site verification and the evidences produced by the Bhavya Cements Limited.

S. NO	SPECIFIC CONDITIONS	COMPLIANCE
I.	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Andhra Pradesh Pollution Control Board. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler and captive power plant (CPP) shall not exceed 50 mg/Nm ³ . Continuous on-line monitors for particulate emissions shall be installed. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	<p>Complied.</p> <ol style="list-style-type: none"> 1. All Pollution control equipment in Cement plant Phase-I are installed, commissioned and are operating within the specified limit of 30 mg/Nm³. Monitoring is carried out every month by third party and recent reports are submitted and the same is enclosed as Annexure - 1. 2. Cement Plant phase-II (Packing plant -2 completed) & the Captive power plant is yet to be implemented. 3. Continuous online monitors are installed for 5 main stacks in phase-I and the data being uploaded to APPCB website. Photographs of the same are enclosed as Annexure - 2. 4. Interlocking facility to pollution control equipment with process equipment is provided.
II.	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard should be followed. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at	<p>Complied.</p> <ol style="list-style-type: none"> 1. All transfer points are provided with hood connected to bag filters. 2. Dust suppression in the Raw material yard and roads is being done by water sprinkling. Photographs of the same are enclosed as Annexure - 3.

S. NO	SPECIFIC CONDITIONS	COMPLIANCE
	<p>material transfer points. Atomized water spray system with reclaimers shall be installed in silo used for the storage of ash. Storage of other raw materials shall be in closed roof sheds. Covered conveyor belts shall be used to reduce fugitive emissions. Concreting of all the roads, water sprinkling system at limestone and coal handling area shall be ensured to reduce fugitive emissions.</p>	<p>3. Concreting of the roads completed. The main road connecting the packing plant, weigh bridge and main gate and main road are concreted. Internal roads in colony completed.</p> <p>4. Covered storage sheds are provided for Laterite, Gypsum and Coal. Covered conveyor belts are in place. Photographs of the same are enclosed as Annexure - 4.</p>
III.	<p>Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with APPCB and data for air emissions shall be submitted to the CPCB and APPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.</p>	<p>Complied.</p> <p>Ambient air quality and Noise levels are being monitored every month regularly and reports are being submitted to the concerned authorities and the reports are enclosed as Annexure - 1.</p> <p>The AAQ monitoring equipment will be calibrated from time to time by suppliers.</p> <p>Continuous online monitors are installed the data being uploaded to APPCB website. Photographs of the same are enclosed as Annexure - 5.</p>
IV.	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.</p>	<p>Complied.</p> <p>Limestone from the Crusher is being transported in closed conveyor belt. Photographs of the same are enclosed as Annexure - 4.</p>
V.	<p>Fly ash shall be utilized as per the provisions of Fly Ash Notification, 1999, subsequently amended in 2003. Fly ash shall be stored in ash silo and 100% used in the cement manufacturing.</p>	<p>Complied.</p> <p>The Captive power plant is yet to be implemented and there is no generation of fly ash. We are producing PPC using fly ash by procuring from nearby Thermal power plants.</p>
VI.	<p>The company shall make the efforts to utilize the high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly. The</p>	<p>Complied</p> <p>The Kiln burner is installed with provision for utilizing high calorific hazardous waste in the cement kiln.</p>

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	company shall keep the record of the waste utilized and shall submit the details to ministry's Regional Office at Bangalore, CPCB and SPCB.	
VII.	Total water requirement shall not exceed 2,500 m ³ /day from river Krishna and prior permission from the concerned State Authority shall be obtained. A copy of permission letter shall be submitted to Ministry's Regional Office at Bangalore. The treated wastewater from STP and utilities shall be reutilized for green belt development and other plant related activities i.e. cooling and dust suppression in raw material handling area etc. after necessary treatment. 'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.	<p>Complied</p> <ol style="list-style-type: none"> 1. The water requirement is presently limited to Phase 1 and colony domestic requirement as the power plant is proposed in the second stage. The present requirement is 220 KLD. 2. Treated waste water from the STP is being used for on land irrigation for the development of green belt. 3. No effluent, either treated or untreated is discharged outside the premises. 4. The permission for drawing water from Krishna river - Approval received from Govt of AP GO no: 97 and pipe line work under process.
VIII.	Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony and mine site. Besides, company must also harvest the rainwater from the rooftops and storm water drains to recharge the ground water. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to conserve fresh water and reduce the water requirement pressure from the river. The Company shall construct the rain water harvesting and groundwater recharge structures outside the plant premises also in consultation with local Gram Panchayat and Village Heads to augment the ground water level. An action plan shall be submitted to Ministry's Regional	<p>Complied</p> <ol style="list-style-type: none"> 1. 4 Rain water harvesting structures are established along the storm water drains and roof water from administrative office, quarters are routed to storm water drains 2. Rain water collected in the lowest bench of the mine is being used for sprinkling of haulage roads. 3. Water storage tanks constructed at ZP high School and Upper Primary School in Tangeda Village and SC Colony in Tangeda Village. 4. 2 no. check dams constructed near the village and mine boundary, as suggested by the public representatives of the Tangeda Village.



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	Office at Bangalore within 3 months from date of issue of this letter.	
IX.	The project proponent shall modify the mine plan of the project at the time of seeking approval for the next mining scheme from the Indian Bureau of Mines so as to reduce the area for external over burden dump by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall slope of the dump does not exceed 28°.	<p>Complied</p> <p>Waste in the form of soil which occurs as a constituent of the admixture with limestone up to about 2 mtr depth from the surface is being progressively used for making a bed 1.5 mtr thick for safety barrier zone to raise green belt. Thus we are not maintaining any separate overburden dump.</p>
X.	Topsoil, if any, shall be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out areas.	<p>Complied</p> <p>No part of the mine is ready for reclamation by back filling during plan period. The soil generated is proposed to be progressively used for raising green belt.</p>
XI.	The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations. The company shall make the plan for protection of the natural water course passing through the plant and mine area premises and submit to the ministry's Regional Office at Bangalore.	<p>Complied</p> <p>As there is no perennial water sources running on are through the site, the mine water discharge is limited to the monsoon season only. To keep water from entering the mine a garland drain developed along the mine top bench, to guide the water to the nearest natural surface drain. Any residual clay or limestone particles which are washed down captured by a sump located at the lowest bench. The sump will be cleaned regularly.</p>
XII.	The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and should not be kept active for long period. The total height of the dumps shall not exceed 30 m in three terraces of 10 m each and the overall slope of the dump shall be maintained to 28°. The inter burden dumps should be scientifically vegetated with suitable native species to prevent	<p>Complied</p> <p>No inter burden dumps are being maintained.</p>

S. NO	SPECIFIC CONDITIONS	COMPLIANCE
	erosion and surface run off. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Bangalore on six monthly bases.	
XIII.	The void left unfilled shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation to be done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	<p>Complied</p> <p>Informed that they will be adhered when mine is closed as per mine closure plan</p> <p>Bunds are formed along the borders of the benches.</p> <p>Bench Height & slope are maintained as per norms stipulated in Metalliferous Mines Regulations 1961.</p>
XIV.	Catch drains and siltation ponds of appropriate size should be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon, and maintained properly.	<p>Complied</p> <p>To keep out water from entering the mine a garland drain developed along the mine top bench which also guides the water to the nearest natural surface drain. Any residual clay or limestone particles which are washed down is captured in a sump located at the lowest bench. The sump will be cleaned regularly.</p>
XV.	Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits	<p>Complied</p> <p>A Sump was maintained with adequate capacity, located at lowest bench of the mine.</p> <p>To keep water from entering the mine a garland drain developed along the mine top bench.</p>

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	should be constructed at the corners of the garland drains and desilted at regular intervals.	
XVI.	Dimension of the retaining wall at the toe of inter burden dumps and inter burden benches within the mine to check run-off and siltation should be based on the rain fall data.	Complied No inter burden dumps are being maintained.
XVII.	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring should be four times a year- pre-monsoon (April / May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Bangalore, Central Ground Water Authority and Central Ground Water Board.	Non - Complied No piezometers are installed. It is reported by PP that they will piezometers within six months
XVIII.	Blasting operation should be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.	Complied We are practicing controlled blasting techniques with NON EL detonators for controlling the ground vibrations and arrest the fly rock and boulders.
XIX.	The project proponent shall adopt wet drilling	Complied We have adopted wet drilling process to control the dust emission into atmosphere during drilling at mines.
XX.	As proposed, green belt should be developed in 33 % in and around the plant as per the CPCB guidelines.	Complied Plantation of green belt is completed in 69 acres and further development is being implemented as per plan.

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XXI.	The company shall take care of water supply of the village Tangeda and submit an action plan in this respect to the Ministry and its Regional Office at Bangalore.	Complied Installed 2000LPH 02 No's RO Plant in the village.
XXII.	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) shall be strictly followed.	Complied Recommendations CREP is implemented
XXIII.	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	Complied Vehicular emissions monitoring is done by third party. Tarpaulin cover is provided for all transport vehicles for incoming raw materials and outgoing cement. Fly ash is transported in bulk tankers.
XXIV.	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bangalore.	Non-Complied PP report that it will be carried out and report will be submitted within 6 months.
XXV.	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure, for approval.	Complied The company furnished financial assurance in the form of a bank guarantee in favour of the Regional Controller of Mines, Indian Bureau of Mines, Hyderabad
XXVI.	The company shall comply with all the Commitments made during public on 30 th April 2008.	Complied i. Local employment: Local employment provided to ii. Technical(Senior) - 34/72 iii. Skilled/Unskilled - 31/41 iv. Trainees(Technical) - 15/25 v. Trainees(Skilled & Unskilled) - 14/18

GENERAL CONDITIONS:

S. NO	GENERAL CONDITIONS	COMPLIANCE
1.	The project authority shall adhere	Complied

	to the stipulations made by State Pollution Control Board (SPCB) and State Government.	Adhering to the stipulations made by APPCB
2.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Complied
3.	At least four air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office and SPCB/CPCB once in six months.	Air quality monitoring stations established at AAQ monitoring Station - 1 at colony area near guest house and AAQ monitoring Station - 2 at on admin building. AAQ Monitoring is being done by third party. The data is being submitted to APPCB regularly. January 2020 reports AAQ Monitoring reports are attached Annexure - 1
4.	Industrial waste water shall be properly collected and treated so as to conform to the standard prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Complied There is no generation of industrial waste water. STP is installed for domestic sewage and the treated water is being utilized for plantation. Photograph of STP is enclosed Annexure - 6
5.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dbA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).	Complied Noise levels are within the limits and conforming to the stipulated standards. January 2020 Month Noise Monitoring report are attached Annexure - 1
6.	Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health Surveillance programme shall be done on regular basis and records maintained properly for atleast 30-40 years. The	Complied OHS are taken up periodically and records are being maintained and being reported by PP.

	programme shall include lung functions and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	
7.	The company shall undertake co-development measures including community welfare measures in the project area.	Complied Community welfare measures are taken up and the details are attached as Annexure - 7
8.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	Complied Environmental protection measures are implementation 1. Pollution control equipment are installed 2. STP is in operation 3. Regular Monitoring is being carried out by third party
9.	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Complied Separate Environment management cell is being set up with laboratory facilities having portable AAQ monitoring station, portable CO analyser pitot tube, digital thermometer, digital draft meter under the supervision of Plant head
10.	Adequate fund shall be allocated to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.	Complied Installation, commissioning of all the pollution control equipment of Phase-I cement plant is completed, commissioned and in operation. STP is completed and in operation.
11.	The Regional Officer of this Ministry/CPCB/SPCB shall monitor the stipulated conditions. The project authorities shall extend full co-operation to the officer(s) of the Regional Officer by furnishing the requisite data/information/monitoring reports. A six monthly compliance report and the monitored data along with	Complied Being complied and full cooperation is being/will be extended to the authorities. Reports are being submitted. Statistical analysis is not done.

	statistical interpretation shall be submitted to them regularly.	
12.	The project Authorities shall inform the Regional Office as well as the Ministry, the date of commencing the land development work.	Complied Informed the same to RO of the ministry. Vide letter BCL/2008-09/113B DATED 27.09.2008.
13.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. No change in the calendar plan including excavation quantum of limestone and waste soil be made.	Complied There is no change in the mining technology.
14.	Measures should be taken for control of noise levels below 85 dBA in work environment. Workers engaged in operations of HEMM etc should be provided with ear plugs.	Complied The noise levels are maintained below 85 dBA. The works exposed to noise levels are being provided with ear muffs.
15.	(Industrial waste water (Workshop) and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May, 1993 and 31 st December, 993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Complied Industrial waste water or Workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. January - 2020 Reports are attached as Annexure - 1
16.	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures if needed.	Complied Personal protective equipment is provided to all the employees and contract workers. OHS surveillance program as per IBM/DGMS and Factories act is being implemented. Training on safety and health aspects is being imparted to workmen.
17.	The Project authorities shall inform to the regional office located regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development	Complied The financial closure for phase 1 is 26.09.2008 and the same was informed to the regional office vide our letter BCL/2008-09/113B

	work.	dated 27.09.2008.
18.	A copy of clearance letter will be marked to _____ concerned Panchayat/ Local NGO, if any, from whom suggestion/representation, if any, was _____ received while processing the proposal.	Complied PP reported that they have marked the copies to all concerned
19.	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's office / Tahsildar's Officer for 30 days.	Complied
20.	The Project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental _____ clearance under a copy of the clearance letter is available with the state Pollution Control Board and also at website of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of this Ministry.	Complied, PP reported that the paper ads are given as per the requirement

ANNEXURES





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TEST REPORT

STACK GAS QUALITY REPORT

Client : M/s Bhavya Cements Limited,
Project : Cement Plant (Tagada Village),
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Month : January-2020,
Date of Sampling : 17.01.2020

1.	Name of the Stack	-	KILN
2.	Sampling location	-	RABH Outlet Stack
3.	Time of sampling	-	03:30 PM
4.	Load at sampling Time	-	100%
5.	Stack Height	-	118.5 Meters
6.	Temp ° C (Ambient)	-	32° C
7.	Temp ° C (Stack)	-	120° C
8.	Flue gas Velocity	-	13.54 m/Sec
9.	Duct Diameter	-	3.9 Meters
10.	Flue gas quantity	-	5,81,996 m ³ /hr.

1.	PM (Particulate Matter) Concentration	mg/Nm ³	18.2
CPCB Standards for Thermal Power Plant, (Particulate Matter) As Per CFO		mg/Nm ³	30

2.	Sulphur-dioxide Concentration	mg/Nm ³	3
CPCB Standards for Thermal Power Plant, (Sulphur-dioxide) As Per CFO		mg/Nm ³	100

3.	Oxides of Nitrogen Concentration	mg/Nm ³	426
CPCB Standards for Thermal Power Plant, (Oxides of Nitrogen) As Per CFO		mg/Nm ³	600

NABL Certificate No.: TC- 5233

NABET Certificate No.: NABET/EIA/1619/SA064

Make of the Instrument: Vayubodhan Upkaran Private Limited

Model & S.No: VSS1; 414-DTK-08

Method of Analysis: CPCB Standard Method


Authorized Signatory



*Complaints Register is available at Laboratory.

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
St. Ann's Road, Tarnaka,
Secunderabad - 500017,
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358



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TEST REPORT

STACK GAS QUALITY REPORT

Client : M/s Bhavya Cements Limited,
Project : Cement Plant (Tagada Village),
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Month : January-2020,
Date of Sampling : 18.01.2020

1.	Name of the Stack	-	COOLER
2.	Sampling location	-	Outlet Stack ESP
3.	Time of sampling	-	03:10 PM
4.	Load at sampling Time	-	100%
5.	Stack Height	-	50.3 Meters
6.	Temp ° C (Ambient)	-	38° C
7.	Temp ° C (Stack)	-	212° C
8.	Flue gas Velocity	-	14.29 m/Sec
9.	Duct Diameter	-	3.2 Meters
10.	Flue gas quantity	-	4,13,527 m ³ /hr.

1.	PM (Particulate Matter) Concentration	mg/Nm ³	26.8
CPCB Standards for Thermal Power Plant, (Particulate Matter) As Per CFO		mg/Nm ³	30

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Model & S.No: VSS1; 414-DTK-08

Method of Analysis: CPCB Standard Method


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4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
St. Ann's Road, Tarnaka,
Secunderabad - 500017,
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358



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Month : January-2020,
Date of Sampling : 18.01.2020

1.	Name of the Stack	-	Coal Mill
2.	Sampling location	-	Bag Fitter Outlet Stack
3.	Time of sampling	-	01:30 PM
4.	Load at sampling Time	-	100%
5.	Stack Height	-	36.6 Meters
6.	Temp ° C (Ambient)	-	28° C
7.	Temp ° C (Stack)	-	66° C
8.	Flue gas Velocity	-	9.84 m/Sec
9.	Duct Diameter	-	2.21 Meters
10.	Flue gas quantity	-	1,35,816 m ³ /hr.

1.	PM (Particulate Matter) Concentration	mg/Nm ³	24.6
CPCB Standards for Thermal Power Plant, (Particulate Matter) As Per CFO		mg/Nm ³	30

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4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
St. Ann's Road, Tarnaka,
Secunderabad - 500017,
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Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
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Project : Cement Plant (Tagada Village),
Location : Tangeda Village, Dacheppally Mandal, Guntur District, A.P.,
Month : January-2020,
Date of Sampling : 19.01.2020

1.	Name of the Stack	-	Cement Mill - I
2.	Sampling location	-	Bag Fitter Outlet Stack
3.	Time of sampling	-	01:00 PM
4.	Load at sampling Time	-	100%
5.	Stack Height	-	34 Meters
6.	Temp ° C (Ambient)	-	30° C
7.	Temp ° C (Stack)	-	70° C
8.	Flue gas Velocity	-	8.38 m/Sec
9.	Duct Diameter	-	1.38 Meters
10.	Flue gas quantity	-	45,099 m ³ /hr.

1.	PM (Particulate Matter) Concentration	mg/Nm ³	23.7
CPCB Standards for Thermal Power Plant, (Particulate Matter) As Per CFO		mg/Nm ³	30

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Date of Sampling : 19.01.2020

1.	Name of the Stack	-	Cement Mill - II
2.	Sampling location	-	Bag Filter Outlet Stack
3.	Time of sampling	-	12:10 PM
4.	Load at sampling Time	-	100%
5.	Stack Height	-	34 Meters
6.	Temp ° C (Ambient)	-	35° C
7.	Temp ° C (Stack)	-	75° C
8.	Flue gas Velocity	-	9.33 m/Sec
9.	Duct Diameter	-	1.38 Meters
10.	Flue gas quantity	-	50,212 m ³ /hr.

1.	PM (Particulate Matter) Concentration	mg/Nm ³	24.2
CPCB Standards for Thermal Power Plant, (Particulate Matter) As Per CFO		mg/Nm ³	30

NABL Certificate No.: TC- 5233

NABET Certificate No.: NABET/EIA/1619/SA064

Make of the Instrument: Vayubodhan Upkaran Private Limited

Model & S.No: VSS1; 414-DTK-08

Method of Analysis: CPCB Standard Method

Authorized Signatory



*Complaints Register is available at Laboratory.

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
St. Ann's Road, Tarnaka,
Secunderabad - 500017,
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358



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TEST REPORT

STACK GAS QUALITY REPORT

Client : M/s Bhavya Cements Limited,
Project : Cement Plant (Tagada Village),
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Month : January-2020,
Date of Sampling : 19.01.2020

1.	Name of the Stack	-	Crusher
2.	Sampling location	-	Bag Fitter Outlet Stack
3.	Time of sampling	-	02:40 PM
4.	Load at sampling Time	-	100%
5.	Stack Height	-	34 Meters
6.	Temp ° C (Ambient)	-	35° C
7.	Temp ° C (Stack)	-	68° C
8.	Flue gas Velocity	-	7.2 m/Sec
9.	Duct Diameter	-	0.9 Meters
10.	Flue gas quantity	-	16,481 m ³ /hr.

1.	PM (Particulate Matter) Concentration	mg/Nm ³	15.2
CPCB Standards for Thermal Power Plant, (Particulate Matter) As Per CFO		mg/Nm ³	30

NABL Certificate No.: TC- 5233
NABET Certificate No.: NABET/EIA/1619/SA064
Make of the Instrument: Vayubodhan Upkaran Private Limited
Model & S.No: VSS1; 414-DTK-08
Method of Analysis: CPCB Standard Method


Authorized Signatory



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TEST REPORT

STACK GAS QUALITY REPORT

Client : M/s Bhavya Cements Limited,
Project : Cement Plant (Tagada Village),
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Month : January-2020,
Date of Sampling : 19.01.2020

11. Name of the Stack	-	DGSET (500 KVA)
12. Sampling location	-	Bag Fitter Outlet Stack
13. Time of sampling	-	03:30 PM
14. Load at sampling Time	-	100%
15. Stack Height	-	36.6 Meters
16. Temp ° C (Ambient)	-	36° C
17. Temp ° C (Stack)	-	77° C
18. Flue gas Velocity	-	6.83 m/Sec
19. Duct Diameter	-	0.5 Meters
20. Flue gas quantity	-	4,825 m ³ /hr.

1.	PM (Particulate Matter) Concentration	mg/Nm ³	10
CPCB Standards for Thermal Power Plant, (Particulate Matter) As Per CFO		mg/Nm ³	30

NABL Certificate No.: TC- 5233
NABET Certificate No.: NABET/EIA/1619/SA064
Make of the Instrument: Vayubodhan Upkaran Private Limited
Model & S.No: VSS1; 414-DTK-08
Method of Analysis: CPCB Standard Method


Authorized Signatory



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St. Ann's Road, Tarnaka,
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TEST REPORT

AMBIENT AIR QUALITY DATA

Client : M/s Bhavya Cements Limited,
Project : Cement Plant (Tagada Village),
Location : Tangada Village, Dachepally Mandal, Guntur District, A.P.,
Month : January-2020,
Date of Sampling : 17.01.2020 to 20.01.2020

S.No	LOCATION	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
1.	Plant Main Gate	68	36	14.4	15.9
2.	Near Laboratory	71	39	13.8	15.3
3.	Near Colony Guest House	56	30	12.9	14.5
4.	School Gate (Bhavya DAV)	63	34	13.2	14.8
5.	Tangada Village	74	41	14.7	16.2
6.	Sarangapalli Village	52	28	11.9	13.4
7.	Muthyalampadu Village	60	32	12.5	14.1
NAAQ Standards for Industrial, Residential, Rural and Other areas (24 hourly standard in µg/m³)		100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)

NABL Certificate No.: TC-5233

NABET Certificate No.: NABET/EIA/1619/SA064

Make of the Instrument for PM₁₀: Aero Vironment Engineers Inc.

Model & S.No: RDS 9000/091125, 9000/091126 & 9000/091128

Make of the Instrument for PM_{2.5}: Envirotech Instruments (P) Ltd.

Model & S.No: APM 550, 142-DTA-2010 & 164-DTA-2010.

Method of Analysis for PM₁₀ & PM_{2.5}: Gravimetric Method.

Method of Analysis for SO₂: Improved West & Geake Method.

Method of Analysis for NO₂: Jacob & Hocheiser Method.

Duration: Sample was collected on 24 hourly basis.


Authorized Signatory



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TEST REPORT

NOISE LEVELS MEASUREMENTS IN dB (A)

Client: M/s Bhavya Cements Limited,
Project : Cement Plant (Tagada Village),
Location : Tangada Village, Dachepally Mandal, Guntur District, A.P.,
Month : January-2020,
Date of Sampling : 17.01.2020 to 19.01.2020

NOISE LEVEL MONITORING AT PLANT

CODE	LOCATION	Spot Noise Level dB (A) 1.0 m Distance From the Source (Machinery)	
		Day Equivalent (Ld)	Night Equivalent (Ln)
Duration of Time: Day: 06:00 AM to 10:00 PM Night: 10:00 PM to 06:00 AM			
N-1	Main Security Gate	69.4	64.2
N-2	Admin Building	65.8	60.1
N-3	Raw Mill	72.7	63.4
N-4	Coal Mill (VRM)	73.5	67.9
N-5	Cement Mills (I&II)	73.2	64.7
Ambient Air Quality Standards w.r.t Noise For Industrial Area		Day Time	Night Time
		75	70

NABL Certificate No.: TC - 5233
NABET Certificate No.: NABET/EIA/1619/SA064
Make of the Instrument: Lutron
Model & S.No: SL-4010


Authorized Signatory



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Telangana, India

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Certificate No. : TC-5233
BSET/TR/Form -56

TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh		Test Report No. : BSET/2020/WS-00128 Lab Code No. : 201037201 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020	
Sample Description : WATER		Date of Registration	28/01/2020
Quantity : 2 Ltrs + 500ml		Date of commencement of testing	28/01/2020
Packing : Sealed Bottle		Date of completion of testing	07/02/2020
Tests Required : As mentioned below		Sample Condition of receipt	Found Ok
Sample Tested as received			
Sampling Details			
Date of Sampling : 27/01/2020		Sampling Method : IS 3025 PART 1	
Location of Sampling/Sample ID : Canteen Drinking water			
General Environment conditions : Normal			

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit In the Absence of Alternate Source
1	Colour	Hazen Units	IS 3025: P 4	< 5	5	15
2	*Odour	-	IS 3025: P 5	Agreeable	Agreeable	Agreeable
3	pH value	-	IS 3025: P 11	6.98	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS 3025: P 10	< 1	1	5
5	Total dissolved solids @ 105 C	mg/l	IS 3025: P 16	84	500 Max	2000 Max
6	Total hardness as CaCO3	mg/l	IS 3025: P 21	44	200 Max	600 Max
7	Calcium as Ca	mg/l	IS 3025: P 40	14	75 Max	200 Max
8	Magnesium as Mg	mg/l	IS 3025: P 46	2.5	30 Max	100 Max
9	Chlorides as Cl	mg/l	IS 3025: P 32	12	250 Max	1000 Max
10	Iron as Fe	mg/l	IS 3025: P53	< 0.05	1.0 Max	No Relaxation
11	Sulphate as SO4	mg/l	IS 3025: P 24	< 4	200 Max	400 Max
12	Fluoride as F	mg/l	APHA 23rd Edn 4500 - F, D	< 0.1	1.0 Max	1.5 Max
13	Nitrate as NO3	mg/l	APHA 23rd Edn 4500-NO3,B	3.3	45 Max	No Relaxation
14	Total Alkalinity as CaCO3	mg/l	IS 3025: P 23	40	200 Max	600 Max
15	Boron as B	mg/l	APHA 23rd Edn 4500 B, B	< 0.1	0.5 Max	2.4 Max
16	Aluminium as Al	mg/l	APHA-23rd Edn 3500-Al, B	< 0.02	0.03 Max	0.2 Max
17	Copper as Cu	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.05 Max	1.5 Max
18	Manganese as Mn	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.1 Max	0.3 Max


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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St. Ann's Road, Tarnaka,
Secunderabad - 500017,
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
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TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh		Test Report No. : BSET/2020/WS-00128 Lab Code No. : 201037201 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020	
Sample Description : WATER		Date of Registration	28/01/2020
Quantity : 2, Ltrs + 500ml		Date of commencement of testing	28/01/2020
Packing : Sealed Bottle		Date of completion of testing	07/02/2020
Tests Required : As mentioned below		Sample Condition of receipt	Found Ok
Sample Tested as received			
Sampling Details			
Date of Sampling : 27/01/2020		Sampling Method : IS 3025 PART 1	
Location of Sampling/Sample ID : Canteen Drinking water			
General Environment conditions: Normal			

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit In the Absence of Alternate Source
19	Selenium as Se	mg/l	APHA-23rd Edn 3114 C	< 0.01	0.01 Max	No Relaxation
20	Zinc as Zn	mg/l	APHA-23rd Edn 3111 B	0.09	5 Max	15 Max
21	Cadmium as Cd	mg/l	APHA-23rd Edn 3111 B	< 0.003	0.003 Max	No Relaxation
22	Lead as Pb	mg/l	APHA-23rd Edn 3111 B	< 0.01	0.01 Max	No Relaxation
23	Mercury as Hg	mg/l	APHA-23rd Edn 3112 B	< 0.001	0.001 Max	No Relaxation
24	Total Arsenic as As	mg/l	APHA-23rd Edn 3114 C	< 0.01	0.01 Max	No Relaxation
25	Total Chromium as Cr	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.05 Max	No Relaxation

Note: * indicates the parameter not covered in NABL Scope

Interpretation of results- NIL, Deviation from test methods- NIL

****End of Report****


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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Page No. 2/2

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St. Ann's Road, Tarnaka,
Secunderabad - 500017,
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
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TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh	Test Report No. : BSET/2020/WS-00131 Lab Code No. : 201036901 Issue Date : 06/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020
Sample Description : WATER	Date of Registration : 28/01/2020
Quantity : 250 ml	Date of commencement of testing : 28/01/2020
Packing : Sealed Bottle	Date of completion of testing : 30/01/2020
Tests Required : Total Coliforms	Sample Condition of receipt : Found Ok
Sample Tested as received	
Sampling Details	
Date of Sampling : 27/01/2020	Sampling Method : IS 3025 PART 1
Location of Sampling/Sample ID : Canteen Drinking water	
General Environment conditions: Normal	

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	Total Coliforms	CFU/100ml	IS 1622:1981	Absent	Not Detectable For Treated Water	Not Detectable For Treated Water

Interpretation of results- NIL, Deviation from test methods- NIL

****End of Report****

J. Lakshmi
Authorized Signatory
JULLURI LAKSHMI
Microbiologist

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Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
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TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh	Test Report No. : BSET/2020/WS-00129 Lab Code No. : 201037101 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020
Sample Description : WATER	Date of Registration : 28/01/2020
Quantity : 2 Ltrs + 500ml	Date of commencement of testing : 28/01/2020
Packing : Sealed Bottle	Date of completion of testing : 07/02/2020
Tests Required : As mentioned below	Sample Condition of receipt : Found Ok
Sample Tested as received	
Sampling Details	
Date of Sampling : 27/01/2020	Sampling Method : IS 3025 PART 1
Location of Sampling/Sample ID: School Drinking water	
General Environment conditions: Normal	

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	Colour	Hazen Units	IS 3025: P 4	< 5	5	15
2	*Odour	-	IS 3025: P 5	Agreeable	Agreeable	Agreeable
3	pH value	-	IS 3025: P 11	6.54	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS 3025: P 10	< 1	1	5
5	Total dissolved solids @ 105 C	mg/l	IS 3025: P 16	74	500 Max	2000 Max
6	Total hardness as CaCO3	mg/l	IS 3025: P 21	28	200 Max	600 Max
7	Calcium as Ca	mg/l	IS 3025: P 40	6.5	75 Max	200 Max
8	Magnesium as Mg	mg/l	IS 3025: P 46	2.9	30 Max	100 Max
9	Chlorides as Cl	mg/l	IS 3025: P 32	18	250 Max	1000 Max
10	Iron as Fe	mg/l	IS 3025: P 53	< 0.05	1.0 Max	No Relaxation
11	Sulphate as SO4	mg/l	IS 3025: P 24	< 4	200 Max	400 Max
12	Fluoride as F	mg/l	APHA 23rd Edn 4500 - F, D	< 0.1	1.0 Max	1.5 Max
13	Nitrate as NO3	mg/l	APHA 23rd Edn 4500-NO3,B	5.2	45 Max	No Relaxation
14	Total Alkalinity as CaCO3	mg/l	IS 3025: P 23	22	200 Max	600 Max
15	Boron as B	mg/l	APHA 23rd Edn 4500 B, B	< 0.1	0.5 Max	2.4 Max
16	Aluminium as Al	mg/l	APHA-23rd Edn 3500-AI, B	< 0.02	0.03 Max	0.2 Max
17	Copper as Cu	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.05 Max	1.5 Max
18	Manganese as Mn	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.1 Max	0.3 Max


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh	Test Report No. : BSET/2020/WS-00129 Lab Code No. : 201037101 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020
Sample Description : WATER	Date of Registration : 28/01/2020
Quantity : 2 Ltrs + 500ml	Date of commencement of testing : 28/01/2020
Packing : Sealed Bottle	Date of completion of testing : 07/02/2020
Tests Required : As mentioned below	Sample Condition of receipt : Found Ok
Sample Tested as received	
Sampling Details	
Date of Sampling : 27/01/2020	Sampling Method : IS 3025 PART 1
Location of Sampling/Sample ID: School Drinking water	
General Environment conditions: Normal	

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit in the Absence of Alternate Source
19	Selenium as Se	mg/l	APHA-23rd Edn 3114 C	< 0.01	0.01 Max	No Relaxation
20	Zinc as Zn	mg/l	APHA-23rd Edn 3111 B	< 0.02	5 Max	15 Max
21	Cadmium as Cd	mg/l	APHA-23rd Edn 3111 B	< 0.003	0.003 Max	No Relaxation
22	Lead as Pb	mg/l	APHA-23rd Edn 3111 B	< 0.01	0.01 Max	No Relaxation
23	Mercury as Hg	mg/l	APHA-23rd Edn 3112 B	< 0.001	0.001 Max	No Relaxation
24	Total Arsenic as As	mg/l	APHA-23rd Edn 3114 C	< 0.01	0.01 Max	No Relaxation
25	Total Chromium as Cr	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.05 Max	No Relaxation

Note: * indicates the parameter not covered in NABL Scope

Interpretation of results- NIL, Deviation from test methods- NIL

****End of Report****


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh	Test Report No. : BSET/2020/WS-00132 Lab Code No. : 201036801 Issue Date : 06/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020
Sample Description : WATER	Date of Registration : 28/01/2020
Quantity : 250 ml	Date of commencement of testing : 28/01/2020
Packing : Sealed Bottle	Date of completion of testing : 30/01/2020
Tests Required : Total Coliforms	Sample Condition of receipt : Found Ok
Sample Tested as received	
Sampling Details	
Date of Sampling : 27/01/2020	Sampling Method : IS 3025 PART 1
Location of Sampling/Sample ID : School Drinking water	
General Environment conditions: Normal	

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	Total Coliforms	CFU/100ml	IS 1622:1981	Absent	Not Detectable For Treated Water	Not Detectable For Treated Water

Interpretation of results- NIL, Deviation from test methods- NIL

****End of Report****

J. Lakshmi
Authorized Signatory
JULLURI LAKSHMI
Microbiologist

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TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dacheppally(M) Guntur District. Andhra Pradesh		Test Report No. : BSET/2020/WS-00130 Lab Code No. : 201037001 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020	
Sample Description : WATER		Date of Registration : 28/01/2020 Date of commencement of testing : 28/01/2020 Date of completion of testing : 07/02/2020 Sample Condition of receipt : Found Ok Sample Tested as received	
Quantity : 2 Ltrs + 500 ml Packing : Sealed Bottle Tests Required : As mentioned below		Sampling Details Date of Sampling : 27/01/2020 Sampling Method : IS 3025 PART 1 Location of Sampling/Sample ID : Plant raw water (Borewell) General Environment conditions: Normal	

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	Colour	Hazen Units	IS 3025: P 4	< 5	5	15
2	*Odour	-	IS 3025: P 5	Agreeable	Agreeable	Agreeable
3	pH value	-	IS 3025: P 11	6.94	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS 3025: P 10	< 1	1	5
5	Total dissolved solids @ 105 C	mg/l	IS 3025: P 16	1180	500 Max	2000 Max
6	Total hardness as CaCO3	mg/l	IS 3025: P 21	505	200 Max	600 Max
7	Calcium as Ca	mg/l	IS 3025: P 40	172	75 Max	200 Max
8	Magnesium as Mg	mg/l	IS 3025: P 46	18	30 Max	100 Max
9	Chlorides as Cl	mg/l	IS 3025: P 32	190	250 Max	1000 Max
10	Iron as Fe	mg/l	IS 3025: P53	0.10	1.0 Max	No Relaxation
11	Sulphate as SO4	mg/l	IS 3025: P 24	235	200 Max	400 Max
12	Fluoride as F	mg/l	APHA 23rd Edn 4500 - F, D	0.92	1.0 Max	1.5 Max
13	Nitrate as NO3	mg/l	APHA 23rd Edn 4500-NO3,B	41	45 Max	No Relaxation
14	Total Alkalinity as CaCO3	mg/l	IS 3025: P 23	361	200 Max	600 Max
15	Boron as B	mg/l	APHA 23rd Edn 4500 B, B	0.23	0.5 Max	2.4 Max
16	Aluminium as Al	mg/l	APHA-23rd Edn 3500-Al, B	< 0.02	0.03 Max	0.2 Max
17	Copper as Cu	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.05 Max	1.5 Max
18	Manganese as Mn	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.1 Max	0.3 Max


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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Page No. 1/2

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4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
 St. Ann's Road, Tarnaka,
 Secunderabad - 500017,
 Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
 Email : lab@bsenvitech.com, info@bsenvitech.com
 Website : www.bsenvitech.com
 CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.
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Certificate No. : TC-5233
BSET/TR/Form -56

TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh		Test Report No. : BSET/2020/WS-00130 Lab Code No. : 201037001 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020	
Sample Description : WATER		Date of Registration	28/01/2020
Quantity : 2 Ltrs + 500 ml		Date of commencement of testing	28/01/2020
Packing : Sealed Bottle		Date of completion of testing	07/02/2020
Tests Required : As mentioned below		Sample Condition of receipt	Found Ok
Sample Tested as received			
Sampling Details			
Date of Sampling : 27/01/2020		Sampling Method : IS 3025 PART 1	
Location of Sampling/Sample ID: Plant raw water (Borewell)			
General Environment conditions: Normal			

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit In the Absence of Alternate Source
19	Selenium as Se	mg/l	APHA-23rd Edn 3114 C	< 0.01	0.01 Max	No Relaxation
20	Zinc as Zn	mg/l	APHA-23rd Edn 3111 B	< 0.02	5 Max	15 Max
21	Cadmium as Cd	mg/l	APHA-23rd Edn 3111 B	< 0.003	0.003 Max	No Relaxation
22	Lead as Pb	mg/l	APHA-23rd Edn 3111 B	< 0.01	0.01 Max	No Relaxation
23	Mercury as Hg	mg/l	APHA-23rd Edn 3112 B	< 0.001	0.001 Max	No Relaxation
24	Total Arsenic as As	mg/l	APHA-23rd Edn 3114 C	< 0.01	0.01 Max	No Relaxation
25	Total Chromium as Cr	mg/l	APHA-23rd Edn 3111 B	< 0.02	0.05 Max	No Relaxation

Note: * indicates the parameter not covered in NABL Scope

Interpretation of results- NIL, Deviation from test methods- NIL

****End of Report****


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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TEST REPORT

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh		Test Report No. : BSET/2020/WS-00133 Lab Code No. : 201036701 Issue Date : 06/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020	
Sample Description : WATER		Date of Registration : 28/01/2020	
Quantity : 250 ml		Date of commencement of testing : 28/01/2020	
Packing : Sealed Bottle		Date of completion of testing : 30/01/2020	
Tests Required : Total Coliforms		Sample Condition of receipt : Found Ok	
Sample Tested as received			
Sampling Details			
Date of Sampling : 27/01/2020		Sampling Method : IS 3025 PART 1	
Location of Sampling/Sample ID : Plant raw water (Borewell)			
General Environment conditions: Normal			

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Requirement as per IS 10500 : 2012	
					Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	Total Coliforms	CFU/100ml	IS 1622:1981	Absent	Not Detectable For Treated Water	Not Detectable For Treated Water

Interpretation of results- NIL, Deviation from test methods- NIL

****End of Report****

J. Lakshmi
Authorized Signatory
JULLURI LAKSHMI
Microbiologist

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TEST REPORT

BSET/TR/Form -56

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh		Test Report No. : BSET/2020/WW-00136 Lab Code No. : 201036401 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020	
Sample Description : WASTE WATER		Date of Registration	28/01/2020
Quantity : 2 Ltrs		Date of commencement of testing	28/01/2020
Packing : Sealed Bottle		Date of completion of testing	07/02/2020
Tests Required : As mentioned below		Sample Condition of receipt	Found Ok
Sample Tested as received			
Sampling Details			
Date of Sampling : 27/01/2020		Sampling Method : IS 3025 PART 1	
Location of Sampling/Sample ID : STP Outlet Water			
General Environment conditions: Normal			

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Acceptable Limit as per GSR-422E - 1993
1	* Color	Hazen Units	IS: 3025, P 4	< 5	Not to have Colour and Unpleasant Odour
2	* Odour	--	IS: 3025, P 5	Agreeable	Not to have Colour and Unpleasant Odour
3	pH	--	IS: 3025, P 11	7.54	5.5 - 9.0
4	Oil & Grease	mg/l	IS: 3025, P 39	< 1	10 Max
5	Total Suspended Solids	mg/l	IS: 3025, P 17	32	100 Max
6	Total Dissolved Solids @ 105 C	mg/l	IS: 3025, P 16	1358	2100
7	Iron as Fe	mg/l	IS: 3025, P 53	0.24	3
8	Fluoride as F	mg/l	4500-F, D APHA 23rd Edn	0.81	2.0 Max
9	Boron as B	mg/l	4500-B, B APHA 23rd Edn	0.30	2.0 Max
10	BOD @27° for 3 days	mg/l	IS: 3025, P 44	3	30 Max
11	Chemical Oxygen Demand (C.O.D)	mg/l	IS: 3025, P 58	15	250 Max
12	Chloride as Cl	mg/l	IS: 3025, P 32	263	1000 Max
13	Dissolved Phosphorous as P	mg/l	4500-P, D & E APHA 23rd Edn	0.39	5.0 Max
14	Sulphide as S	mg/l	4500-S2-, D APHA 23rd Edn	< 1	2.0 Max
15	Sulphate as SO4	mg/l	IS: 3025, P 24	263	1000 Max
16	* Percent Sodium	--	By Calculation	58.8	-


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customers : M/s. Bhavya Cements Ltd. Tangeda(V) Dachepally(M) Guntur District. Andhra Pradesh		Test Report No. : BSET/2020/WW-00136 Lab Code No. : 201036401 Issue Date : 07/02/2020 Your Ref. : LETTER Dt.28/01/2020 Date of Receipt : 28/01/2020	
Sample Description : WASTE WATER		Date of Registration	28/01/2020
Quantity : 2 Ltrs		Date of commencement of testing	28/01/2020
Packing : Sealed Bottle		Date of completion of testing	07/02/2020
Tests Required : As mentioned below		Sample Condition of receipt	Found Ok
Sample Tested as received			
Sampling Details			
Date of Sampling : 27/01/2020	Sampling Method : IS 3025 PART 1		
Location of Sampling/Sample ID: STP Outlet Water			
General Environment conditions: Normal			

TEST RESULTS

S.No.	Test Parameter	Units	Test Method	Results	Acceptable Limit as per GSR-422E - 1993
17	* Residual Sodium Carbonate	mg/l	IS 11624 (By Calculation)	Nil	-
18	Total Volatile Suspended Solids	mg/l	IS: 3025, P 18	< 10	-

Note: * indicates the parameter not covered in NABL Scope

Interpretation of Results- NIL, Deviation from Test Methods - NIL

****End of Report****


Authorized Signatory
BADRI VENUGOPAL
Quality Manager

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PHOTOGRAPHS OF ONLINE CONTINUOUS STACK MONITORING STATIONS



CEMS from Kiln RABH Stack



CEMS from Coal Mill Stack



CEMS from Cement Mill - 1 Stack



CEMS from Cement Mill - 2 Stack



CEMS from Cooler ESP Stack

WATER SPRINKLERS IN MINES HAULAGE ROAD



DRY FOG SYSTEM IN LIMESTONE DUMP HOPPER



PHOTGRAPHS SHOWING COVERED STORAGE AREAS AND CONVEYOR BELT



Closed Belt Conveyors



Limestone Belt Conveyors



Gypsum Storage Yard



Gypsum Belt Conveyor to Cement mill



Coal Storage Yard



Coal Belt Conveyor

PHOTOGRAPHS OF ONLINE CONTINUOUS AAQ MONITORING STATIONS



CAAQMS Stations 1 & 2



CAAQMS Station

PHOTOGRAPHS OF SEWAGE TREATMENT PLANT








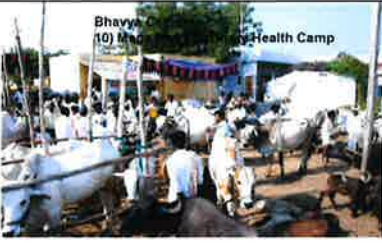

Social Welfare Activities :



Since inception of the project, several welfare measures, comprising educational and health facilities, civic amenities and aid for religious practices cutting across class, creed and religion, were executed by M/s. Bhavya Cements Ltd to aid its employees, their families and residents of Tangeda village and nearby dwellings, in leading a quality life.

© The company has provided employment for about 105 local persons in skilled & semi skilled categories. All the contract works i.e. Loading & Unloading, Branding and civil works were given to local people.

©© About **Rs.300-lakhs** were spent by the company towards capital expenditure in this regard. In addition, sustained continuance of some of the measures involves recurring expenditure of about **Rs.60 Lakhs** per annum.

<u>Sl.no</u>	<u>Type of activity</u>	<u>Beneficiaries</u>	<u>Expenditure incurred in Lakh Rupees</u>
1	Construction of BCL-DAV P School Building. (proposed up to 10 th class, English Medium with CBSE syllabus)	Tangeda village children and neighboring villages	150.00
			
2	Free admission & 50% fee Consession. Free transportation upto 3 rd class Children from Tangeda village.	Tangeda Village Children	25.00*RE
3	Three check dams	Tangeda Villagers	06.00
4	Renovation of ancient well of village	Tangeda Villagers	3.00
			
5	Uniforms for 200 Madarsa Children	Tangeda Villagers	0.50*RE

6	Toilet Blocks for Madarsa Children		10.00
7	Providing Plates & tumblers for School Children-400 Nos	Tangeda Villagers	0.40
8	Furniture for Upper Primary School	Tangeda Villagers	0.30
9	Weekly free medical checkup by Company's Doctor & Lady Doctor (arranged from outside.)	Tangeda Villagers	0.60*RE
10	Veterinary Medical camp for Cattle & Sheep-annual	Tangeda Villagers	0.60*RE
			
11	Repair of local R&B road	Tangeda Village	20.00
12	Total Medical expenses for Spine Fixation Surgery for one girl	Tangeda Village	1.00
13	Supply of Tricycles for 5 PHC Persons	Tangeda Village	0.30
14	Construction of 120 Toilets in SC colony	Tangeda Village	8.00
			
15	Water supply to SC colony by digging bore wells provided with motor and over head tank.	Tangeda Village	5.00
16	Issue of cement to School	Tangeda Village	0.40
17	Supply of food and refreshments to Hindu, Muslim and Christian pilgrims during their festivals	Tangeda & Other Villages	3.00*RE
18	Medical facilities in company's Hospital	Company's Employees Families & Tangeda Villagers	15.00*RE
19	Free supply of gravel for Construction of school, Church & internal Roads	Tangeda Village & Neighboring villages	20.00
20	Supply of cement at concessional rate for construction of houses	Tangeda Villagers, Neighboring villages. Over and above to the Dist development on the request of MLAs and Ps.	10.00*RE

21	Free water sprinkling on Roads.	Mutyalampadu & Dachepalli village	3.60*RE
22	Emergency medical treatment (Scorpion, Snake & Dog bite.)	Tangeda & Other Villagers	1.00*RE
23	Construction of Kalyana mandapam at Sri Venkateswara Swamy Temple on the request of Tangeda villagers		13.50
24	Constructed toilet blocks for the pilgrims at Mattapalli Sri Lakshmi Narasimha Swamy temple on the request of temple committee.		6.00
25	Constructed cement concrete road over 1.2Km near Mutyalampadu Village and 1.0Km near Dachepally Village.	Mutyalampadu Village and Dachepally Village	150 .00
26	Constructed toilet blocks at Orphan girls madharasa at Tangeda village. 	Tangeda Village	14.00
27.	Renovation of Mutyalamma temple at Tangeda.	Tangeda Village	7.00
28.	Constructed church at Tangeda 	Tangeda Village	27.00

***RE = Recurring Expenditure**

29. Provided 100 Benches at cost of Rs.1,16,000/- for students of Z.P High School Tangeda

30. Supplied drinking water to Tangeda village from February 2016 by constructing 04 Nos of Storage Tanks with an amount of Rs.2,0000/-

31. Constructed dress change cabins, conducted medical camp at Krishna river ghat on the occasion of **“Krishna pushkaralu-2016”** for an amount of Rs.3,00,000/-

Contract works to Local people:

Contract works for the value of about **Rs.2,60,00,000/-** per annum have been accorded to the local persons Details of all these activities are as below :-

Award of contract works			
	Loading of cement etc	Tangeda villagers	60.00 PA
	Unloading of raw materials	Tangeda villagers	45.00 PA
	Civil works in factory area	Tangeda Villagers	85.00 PA
	Civil works for residential colony	Tangeda Villagers	70.00 (one time)

Supply of Cement :

On the instructions of District Collector, Guntur we are supplying cement at concessional rates to the entire Guntur District under **“Nirmal Bharath Abhiyan”** Scheme.

Donation of Cement:-

Supplied 92 Tons of cement on free of cost for constructing the toilets in Tangeda village under **“Swacha Bharat Scheme”** cost of Rs.4,41,600/-

Welfare Activates :

The Management has constructed bath rooms and toilet block at Madarasa which is giving free education and boarding to the orphan / poor girls at Tangeda village. Medical facility with male doctor round the clock and lady doctor check-up once in a week is also provided for the nearby village people. Company maintains essential medicines for snake, scorpion bite for all the nearby villages (Agraharam, Muthyalampadu, Chennaipalem and Tangeda) and arranged conveyance and meals facility for free Eye cataract surgery at NRI hospital, Mangalagiri, near Guntur. The Management has also conducting blood donation camp every year 14th September in association with Indian Red Cross Society. More than 100 employees are participating in the camp and donating blood. Annadanam programs are being continuously conducted on various occasions in nearby villages including Tangeda.



Water Regime Management:

1. Three check dams were constructed by the M/s.Bhavya Cements Ltd, one near the boundary of the mining lease, one is near Tangeda Village boundary and the other one is near Factory boundary. This was done to satisfy the desire of the local villagers, to augment the ground water level.

Water thus available is being utilized by the villagers for agricultural purposes.

2. Details of the dams are as below:

- Near mining lease boundary : 32.0m X 2.0 m X 1.0 m.
- Near village boundary : 48.0m X 1.0m X 1.0m
- Near Factory boundary : 35.m x 1.0m x1.0m

3. Construction of these dams costed Rs.06 lakhs.



Drinking Water for Villagers :

- R.O Plant constructed at Tangeda Village, Dachepalli Mandal at a cost of Rs.6.00 lakhs catering to the needs of 6,000 population, with Gram Panchayat, who contributed Rs.2.50 lakhs and Company contributed Rs.3.50 lakhs. The same was reported in the Telugu News Paper "Eenadu", Gurajala Edition on 22.02.2015.
- R.O Plant constructed at Veerapuram Village, Piduguralla Mandal at a cost of Rs.3.50 lakhs catering to the needs of 4,000 population.
- R.O Plant constructed at S.C Colony Tangeda Village, Dachepally Mandal at a cost of Rs.7.00 lakhs catering to the needs of 6,000 population.

తంగెడ(దాచేపల్లి), న్యూస్టుడే: తంగెడ గ్రామంలో రూ. 58 లక్షలతో జరుగుతున్న అభివృద్ధి పనులు చేపట్టారు. దీనిలో భాగంగానే రూ. 6 లక్షలతో ఎన్టీఆర్ సుజల పథకాన్ని పూర్తి చేశారు. ఇందులో భవ్య సిమెంట్స్ యాజమాన్యం రూ. 3.50 లక్షలతో సామగ్రిని కొనుగోలు చేశారు. మిగతా రూ. 2.50 లక్షలతో దానికి కావాల్సిన భవనాన్ని గ్రామ పంచాయతీ నిర్మించింది. ప్రధాన పాఠశాలలో రూ. 26 లక్షలతో 4 గదులు, ఉన్నత పాఠశాలలో రూ. 18 లక్షలతో 3 గదులు నిర్మించారు. రూ. 6 లక్షలతో పశువుల ఆసుపత్రిని నిర్మించారు. అదేవిధంగా ఎస్సీ కాలనీలో రూ. 2 లక్షలతో సిమెంట్ రోడ్డును నిర్మించారు. వీటి పనులు దాదాపు పూర్తయ్యాయని గ్రామ సర్పంచి పాశం పకీరా రెడ్డి, కార్యదర్శి నాగెండ్ల రత్నం చెప్పారు.

Green Belt Development : - Raising green belt near the crusher site, in factory area and in residential colony was taken up right from the inception of the project work in the year 2008-09 (Photos 4&5). Soil available in the lease hold is used to raise the plantation.

•• The species thus planted include : Subabul, Kanuga, Neem, Badam : fruit trees like Mango, Sapota, Amla etc., Flowering plants like Bogonvilla, Mandaram, Sampangi etc

••• This programme has resulted so far in planting about 41,190 saplings as per following details:

Bhavya Cements Limited, Tangeda

Plantation Details

Sl.No.	Year	Plant & Colony	Mines lease area	Mines Non-lease area	Total
01.	2008-09	10000	—	—	10000
02.	2009-10	5000	—	—	5000
03.	2010-11	3000	—	—	3000
04.	2011-12	5000	300	—	5300
05.	2012-13	16390	3000	1000	20390
06.	2013-14	1000	2500	1000	4500
07.	2014-15	4000	1000	—	5000
08.	2015-16	2000	8000	—	10000
09.	2016-17	1000	2000	—	3000
10	2017-18	500	1480	—	1980
11.	2018-19	300	1340	—	1640
Total		48190	19620	2000	69810

.... Monthly expenditure of about **Rs.2,00,000/-** (Rupees Two Lakh only) is being incurred in preparing the beds, planting, watering and care of the plantation thus grown.

Thus, growing and nurturing the plantation in the mine, crusher, plant, and residential areas will be a continuous operation and becomes an important component of sustainable development in the realm of environment.

The welfare activities completed so far and planned for immediate future by the company.

COMMUNITY DEVELOPMENT :

Statement showing work done and expenditure incurred for the community development

S.No.	Particulars	Total Expenditure incurred during 2015-16 (Rupees in lakh)	Beneficiaries	
1	Housing	Rs.5,00,000/-	100 families	Tangeda, Chennaipalem, Mutyalampadu and Agraharam Villagers
2	Water supply	Rs.8,50,000/-	8000 No's	Tangeda Villagers, Tangeda High School & R.O Plant at Veerapuram
3	Health, safety and Medical facilities	Rs.2,93,897/-	5000 no's	Tangeda Villagers
4	Education and training	Rs.58,93,538/-	800 families	Tangeda, Chennaipalem, Vemavaram, Mutyalampadu, Agraharam and Madinapadu Villagers
5	Public transportation and communication	Rs.1,68,871/-	10000 No's	Agraharam Road, Chennaipalem Road, Tangeda to Dachepalli Road
6	If any(mention) For devotees Annadanam nearby temples of our Plant	Rs.2,90,000/-	10000 No's	Tangeda, Mattapalli Mutylampadu, Madinapadu and Dachepalli Villages
	GRAND TOTAL	Rs. 79,96,306/-		

M/s.Bhavya Cements Limited

CAPITAL EXPENDITURE

S.No.	Year	Amount Rs.
01.	2011-12	Rs. 19,95,063/-
02.	2012-13	Rs. 46,23,506/-
03.	2013-14	Rs. 26,96,088/-
04.	2014-15	Rs. 29,81,299/-
05.	2015-16	Rs. 79,96,306/-
06.	2016-17	Rs. 28,65,549/-
07.	2017-18	Rs. 26,44,898/-
Total		Rs.2,58,02,709/-
School Building		Rs.2,19,46,945/-



BHAVYA CEMENTS LIMITED

(An ISO 9001 : 2015 Certified Company)

Corporate Office : Plot No. A-1, IInd Floor, Bhavya's Spoorthi Bhavan,
Film Nagar, Jubilee Hills, Hyderabad - 500 096.
Phone : 040-23553864 / 65, Fax : 040-23558393,
E-mail : info@bhavyacement.in, CIN : U26941AP2007PLC053611

CERTIFICATE

This is to certify that during the financial year 2018-19 Bhavya Cements Limited, Tangeda, Dachepalli Mandal, Guntur District, AP has spent Rs 33,13,573/- (Rupees Thirty three lakhs thirteen thousand five hundred and seventy three only) for the activities of Corporate Social Responsibilities as detailed below:

S No	Services/Activities Provided at	Nature of Job/Work Done	Amount Rs	Remarks
1	Promoting education			
	Tangeda and for Surrounding Villages	Providing Conveyance to School Students of Bhavya Cements DAV Public School	16,21,652	Amount paid M/s Jasper Industries Pvt Ltd towards Purchase of School Bus
	Tangeda and for Surrounding Villages	Providing Conveyance to School Students of Bhavya Cements DAV Public School	39,451	Amount paid Future Generali India Insurance Co. Ltd, for School Buses insurances renewal
	Tangeda and for Surrounding Villages	Providing Conveyance to School Students of Bhavya Cements DAV Public Scholl	2,60,580	Amount paid Ch. Nabiabee towards monthly paymenrs for supply of Drivers and assistnats for School Buses
	Tangeda and for Surrounding Villages	Providing Conveyance to School Students of Bhavya Cements DAV Public Scholl	11,68,682	Amount paid Ch.Nabiabi/ Ch.Hassan Ahamed towards monthly paymenrs for supply of Drivers and assistnats for School Buses
2	Measures for reducing inequalities faced by socially and economically backward groups			
	S.C Colony, Mutyalampadu		10,208	Donation paid
3	Swachha Bharat Program			
	Tangeda and for Surrounding Villages	Constructions of Public Tollets In Tangeda Village	23,000	Mandala Parishat Abhivrudhi Adhikari,
4	Natural Calamity			
	Kerala Flood victims	donation for kerala flood victims	1,40,000	DISTRICT COLLECTOR GUNTUR" towards donation for kerala flood victims
5	Employment enhancing skills			
	Tangeda and for Surrounding Villages	sponsorship for Anveshana 2019-A National level student Technical Cultural Fest	50,000	Being the amount paid towards sponsorship for Anveshana 2019-A National level student Technical Cultural Fest
		Grand Total	33,13,573	

For Bhavya Cements Limited


Krishna Chaitanya M
General Manager (F&A)



Regd. Office & Works : Tangeda (Village), Dachepally (Mandal), Guntur (Dist.) - 522 414.
Phone : 08649-273900, Fax : 08649-273819. E-mail: hrworks@bhavyacement.in