

**M/s. Parasakti Cement Industries Limited.,**

Jettopalem (V & Post)

Rentachintala (M),

Guntur (Dist.)-522 421.

**Consent Order No: APPCB/VJA/GTR/748/HO/CFO/2020-Date: 28/07/2020**

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**CFO COMPLIANCE REPORT  
FOR PARASAKTI CEMENT INDUSTRIES LIMITED  
FOR OPERATION OF PLANT  
From July 2021 to December 2021  
Consent Order No: APPCB/VJA/GTR/748/HO/CFO/2020- Date: 28/07/2020**

Prepared By:

**Universal Enviro Associates, Hyderabad.**

**Accredited by NABL (TC-6239)**



Universal Enviro Associates



*T. Krishna*  
(T Krishna)  
Technical Manager

**M/s. Parasakti Cement Industries Limited.,**

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Rentachintala (M),

Guntur (Dist.)-522 421.

**Consent Order No: APPCB/VJA/GTR/748/HO/CFO/2020-Date: 28/07/2020**

<b>SCHEDULE-A</b>		
	<b>Condition</b>	<b>Compliance</b>
1	The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	Applying for CFO as per the PCB Norms
2	The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.	We are displayed two sign boards (6x4 ft. each) in front of main gate
3	The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit the same to the Board.	Being followed and attached in <b>Annexure-1</b>
4	The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E (P) Rules, 1986 & amendments thereof.	We are submitting Environment in Form V every year before 30 <sup>th</sup> Septen



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5	Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Being followed
6	The industry shall be liable to pay Environmental Compensation, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.	Being followed
7	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.	Will be abided by the orders of the Board
8	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.	Complied
9	Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.	Being followed



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<b>SCHEDULE-B</b>																	
	<b>Condition</b>	<b>Compliance</b>															
1	The industry obtained in principle permission from Water Resources Department, Govt. of A.P on 23.11.2017 for drawl of Krishna water of 1865 KLD during the surplus period (Sep, Oct & Nov only) with validity of 2 years, was expired on 22.11.2019 and it need to be renewed, until then, WHRPP plant shall not be operated.	We obtained renewal copy for river water approval from Water Resources Department for drawing the water from Krishna river 1865 KLD. The same submitted to PCB RO Guntur.															
2	As per the RTPMS site, the calibration of online monitoring systems was carried out 4 years back. Most of the time, the data in RTPMS is reported as 'NA' & 'Zero', the industry need to calibrate the online monitoring systems, by 28.08.2020	Equipment Calibrated as per schedule and attached the same. <b>Annexure-2</b>															
3	As per the new emission standards under MoEF & CC Notification, New Delhi Dt.10.05.2016 in G.S.R. 497 (E), the industry has to control emission limits of HCl, HF, TOC, other compounds etc.	Complied															
<b>Water Pollution</b>																	
1	<p>The industry shall made all efforts for Zero Discharge of service wastewater and in case, the industry prefers to discharge service wastewater shall comply the following effluent standards as per the MoEF&amp;CC notifications of G.S.R. 497 (E), Dt.10.05.2016:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Outlet</th> <th style="width: 45%;">Parameter No.</th> <th style="width: 40%;">Limiting Standards</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>PH</td> <td style="text-align: center;">5.5 - 9.0</td> </tr> <tr> <td></td> <td>Suspended Solids (SS)</td> <td style="text-align: center;">100.0 mg/l</td> </tr> <tr> <td></td> <td>Oil and Grease</td> <td style="text-align: center;">10.0 mg/l</td> </tr> <tr> <td></td> <td>Temperature</td> <td style="text-align: center;">Not less than 5 °C than the intake water</td> </tr> </tbody> </table> <p>Storm water shall not be allowed to mix with the effluent, treated sewage, scrubber water or floor washings. Storm water with in the battery limits of the industry shall be channelized through separate drains.</p>	Outlet	Parameter No.	Limiting Standards	1	PH	5.5 - 9.0		Suspended Solids (SS)	100.0 mg/l		Oil and Grease	10.0 mg/l		Temperature	Not less than 5 °C than the intake water	<p>The effluents generated are only from Domestic purposes which are treated in STP.</p> <p>The treated effluent quality is monitored regularly from MoEF recognized 3rd party and the parameters are well below the stipulated limits.</p> <p>The reports of the same are regularly submitted to APPCB.</p>
Outlet	Parameter No.	Limiting Standards															
1	PH	5.5 - 9.0															
	Suspended Solids (SS)	100.0 mg/l															
	Oil and Grease	10.0 mg/l															
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	<b>Condition</b>	<b>Compliance</b>																		
2	<p>The industry shall comply the following discharge standards for the treated water of STP as permitted disposal mode:</p> <table border="1"><thead><tr><th>Outlet No</th><th>Parameter</th><th>Concentration</th></tr></thead><tbody><tr><td>2</td><td>pH</td><td>6.5 - 9.0</td></tr><tr><td></td><td>Total Suspended Solids (TSS)</td><td>&lt;100 mg/l</td></tr><tr><td></td><td>Oil &amp; Grease</td><td>10 mg/l</td></tr><tr><td></td><td>BOD</td><td>30 mg/l</td></tr><tr><td></td><td>Fecal coli form (FC) (Most probable Number per 100 milliliter, MPN/100 ml)</td><td>&lt;1000</td></tr></tbody></table>	Outlet No	Parameter	Concentration	2	pH	6.5 - 9.0		Total Suspended Solids (TSS)	<100 mg/l		Oil & Grease	10 mg/l		BOD	30 mg/l		Fecal coli form (FC) (Most probable Number per 100 milliliter, MPN/100 ml)	<1000	<p>STP Water analysis are attached in <b>Annexure-1</b></p>
Outlet No	Parameter	Concentration																		
2	pH	6.5 - 9.0																		
	Total Suspended Solids (TSS)	<100 mg/l																		
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	BOD	30 mg/l																		
	Fecal coli form (FC) (Most probable Number per 100 milliliter, MPN/100 ml)	<1000																		
3	<p>The source of water is Ground water and from Krishna River at Satrasala in Guntur District during the surplus period (i.e. September, October &amp; November only). The following is the permitted water consumption:</p> <table border="1"><thead><tr><th>S. No</th><th>Purpose</th><th>Quantity (KLD)</th></tr></thead><tbody><tr><td>1</td><td>Process, Washings, Boiler Feed &amp; Industrial Cooling (make up)</td><td>1705 KLD</td></tr><tr><td>2</td><td>Domestic including Township</td><td>160 KLD</td></tr><tr><td>3</td><td><b>Total</b></td><td>1865 KLD</td></tr></tbody></table> <p>Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above</p>	S. No	Purpose	Quantity (KLD)	1	Process, Washings, Boiler Feed & Industrial Cooling (make up)	1705 KLD	2	Domestic including Township	160 KLD	3	<b>Total</b>	1865 KLD	<p>Water consumption details are attached in <b>Annexure-3</b></p>						
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	<b>Air Pollution</b>																																		
	<p>The emissions shall not contain constituents in excess of the prescribed limits mentioned below for the cement plants with co-processing of wastes, as per the MoEF&amp;CC notifications of G.S.R. 497 (E), Dt.10.05.2016 :</p> <table border="1"> <thead> <tr> <th>Chimney No.</th> <th>Parameter</th> <th>Emission Standards</th> </tr> </thead> <tbody> <tr> <td>1 to 26</td> <td>Particulate Matter</td> <td>30. mg/Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>SO<sub>2</sub> *</td> <td>100 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>NOx (before Notification)</td> <td>800 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>HCl</td> <td>10 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>HF</td> <td>1 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>TOC **</td> <td>10 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>Hg and its compounds</td> <td>0.05 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>Cd + Tl</td> <td>0.05 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>Sb+As+Pb+Co+Cr+Cu+Mn+V and their compounds</td> <td>0.5 mg/ Nm<sup>3</sup></td> </tr> <tr> <td></td> <td>Dioxins and Furans</td> <td>0.1 mg TEQ/N m<sup>3</sup></td> </tr> </tbody> </table>	Chimney No.	Parameter	Emission Standards	1 to 26	Particulate Matter	30. mg/Nm <sup>3</sup>		SO <sub>2</sub> *	100 mg/ Nm <sup>3</sup>		NOx (before Notification)	800 mg/ Nm <sup>3</sup>		HCl	10 mg/ Nm <sup>3</sup>		HF	1 mg/ Nm <sup>3</sup>		TOC **	10 mg/ Nm <sup>3</sup>		Hg and its compounds	0.05 mg/ Nm <sup>3</sup>		Cd + Tl	0.05 mg/ Nm <sup>3</sup>		Sb+As+Pb+Co+Cr+Cu+Mn+V and their compounds	0.5 mg/ Nm <sup>3</sup>		Dioxins and Furans	0.1 mg TEQ/N m <sup>3</sup>	<p>Reports are attached in <b>Annexure-4</b></p>
Chimney No.	Parameter	Emission Standards																																	
1 to 26	Particulate Matter	30. mg/Nm <sup>3</sup>																																	
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4	<p>-The norms of SO<sub>2</sub> &amp; NOx shall be applicable to kiln only</p> <p>-For Rotary Kiln based plants the particulate matter from the raw mill, kiln &amp; pre- calciner system put together shall not exceed 0.125 kg/Ton of clinker</p> <p>*Assuming pyritic sulphur to the limestone is less than 0.25 %</p> <p>**Permitting authority may prescribe separate standards on case to case basis, if Total Organic Carbon (TOC) does not result from the co-processing waste.</p> <p><b>a)</b> The height of each individual stack connection Kiln, Clinker, Cooler, Cement Mill, Coal Mill, Raw Mill, Packing section, etc. shall be of a minimum of 30 m or as per the formula <math>H=14(Q1)0.3</math> and <math>H=74(Q2)0.27</math> whichever is more, where "H" is the height of the stack in meters and "Q1" is the maximum quantity of SO<sub>2</sub> expected to be emitted in tones/hr through the stack at 100 percent rated capacity of the plan.</p> <p><b>b)</b> The monitored values of SO<sub>2</sub>, NOx, HCl, HF, TOC, Metals and Dioxins and Furans at main kiln stack shall be corrected to 10% oxygen, on dry basis and the norms for SO<sub>2</sub>, NOx, HCl, HF, TOC, Metals and Dioxins and Furans shall be applicable to all the stacks in the plant. PM, SO<sub>2</sub>, NOX shall monitored continuously. HCl, HF, TOC, Metals and Dioxins and Furans shall be monitored once in a year.</p> <p><b>c)</b> Scrubber meant for scrubbing emissions shall not be used as quencher and plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be at least equal to the main stack.</p>																																		

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	<b>Condition</b>	<b>Compliance</b>
5	The industry shall provide concrete roads within the plant to avoid the fugitive dust emissions. Vacuum/ pneumatic dust collection system shall be used for cleaning the internal roads. The compliance shall be followed with respect to production capacity of the plant and to submit timely report to the Regional Office, Guntur.	We are provided concrete roads and using sweeping machine for avoided fugitive emissions.
6	The industry shall provide interlocking system for air pollution control equipments provided with raw material feeding system so that the feeding of raw material would be stopped in case of failure of the air pollution control equipments.	Proper interlocking system is provided for air pollution control equipments to avoid fugitive emission in case of failure.
7	The industry shall maintain adequate dust collection and extraction system to control fugitive emissions at various material transfer points & the dust collected from pollution control equipments shall be recycled back into the process. The compliance status shall be reported to RO, Guntur.	Bag filters are installed at all transfer points, raw material hoppers for controlling of fugitive emissions and the collected dust is recycled back in the process and complied to PCB RO
8	The industry shall ensure implementation of requisite measures to prevent air pollution in the surrounding area and shall develop avenue plantations along the roads and available vacant spaces in coordination with local panchayats	Being Followed
9	<p>The industry shall comply with ambient air quality standards of PM<sub>10</sub> (Particulate Matter size less than 10mm) - 100 mg/m<sup>3</sup>; PM<sub>2.5</sub> (Particulate Matter size less than 2.5mm) - 60 mg/m<sup>3</sup>; SO<sub>2</sub> - 80 mg/m<sup>3</sup>; NO<sub>x</sub> - 80 mg/m<sup>3</sup>, outside the factory premises at the periphery of the industry.</p> <p>Standards for other parameters as mentioned in the National Ambient Air Quality Standards by MoEF&amp;CC notification GSR 826(E), 16.11.2009 &amp; CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 and its subsequent amendments thereof.</p> <p>Noise Levels:</p> <p>Day time (6 AM to 10 PM) - 75 dB (A) Night time (10 PM to 6 AM) - 70 dB (A)</p>	<p>Ambient Air Quality &amp; Noise monitoring is carried out by deputing MoEF recognized external agency and the monitoring Reports are regularly submitted to APPCB.</p> <p>The AAQ values are well below the stipulated limits of NAAQs.</p>



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	<b>Condition</b>	<b>Compliance</b>
10	The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986	We will follow the directions.
	<b>General</b>	
11	The industry shall maintain the log books for Effluents generated, treated and used for Green Belt development, Log Books for pollution control systems, Characteristics of ambient air, effluents and emissions, Hazardous/non hazardous solid waste generated, disposed and incinerated etc. and the same shall be made available to the inspecting officers of the Board.	Being followed
12	The industry shall obtain the Renewal of principle permission from Water Resources Department, Govt. of A.P for drawl of Krishna water of 1865 KLD during the surplus period (Sep, Oct & Nov only), and furnish the same at RO, Guntur. The industry shall not draw water from Krishna river without obtaining the renewal of the same.	We obtained renewal copy for river water approval from Water Resources Department for drawing the water from Krishna river 1865KLD. The same submitted to PCB RO Guntur.
13	The industry shall submit the import details of pet coke along with analysis reports and quantity of utilization of pet coke in process to RO, Guntur on monthly basis.	Being followed and submitted to RO.
14	The industry shall provide 2 CAAQM stations in addition to the existing two CAAQM stations at representative areas, by 28.02.2021.	We have two CAAQM Stations and connected to CPCB and APPCB portal. And one more CAAQM Station Installation work under progress.



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	<b>Condition</b>	<b>Compliance</b>
15	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc., for noise generating sources.	Marinating the within Limits as per norms and reports are attached.
16	The industry shall comply with standards and directions issued by CPCB / MoEF&CC as and when notifications are issued.	Complied
17	The industry is introducing the plastic into the market along with their products which attracts Plastic Waste Management Rules, 2016 & its amendments thereof, the industry shall obtain registration and furnish EPR plan for collection of the plastic waste by 28.08.2020.	Registration process work under progress.
18	The industry shall dispose the plastic waste generated from the damaged and waste sacks of cement packaging unit as per Plastic Waste Management Rules, 2016 & its amendments thereof.	We are following as per the CFO and send to authorized recyclers. Annexure-5
19	The industry shall comply with the standards stipulated for Air & Water, in case of non-compliance and fire accidents, the industry is liable for Environmental Compensation and Environmental Damage Compensation, as per the Central Pollution Control Board (CPCB) assessing methodology of Environmental Compensation.	Being followed.
20	The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1st of January and July of every year to the RO/ZO.	Complied



<b>Schedule C</b>		
<b>Conditions of Authorization for Occupier or Operator Handling Hazardous wastes.</b>		
	<b>Condition</b>	<b>Compliance</b>
1	The industry shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under and any other conditions/ the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Following the conditions direction by CPCB and SPCB.
2	The industry shall furnish Annual Returns, for the last financial year, under these Rules by June 30 <sup>th</sup> of every year and the industry shall obtain the renewal of authorization time to time. The industry shall produce authorization copy or its renewal to the authorized inspecting officers of the Board on their request.	Being followed.
3	The industry shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except those permitted in the authorization and any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the industry and closing of the facility without prior intimation to the Board, is treated as violation of HOWM Rules, 2016.	Being followed.
4	As per the instructions under the Board Circular. No .F-30/APPCB/HO/HWM/RO-ZO/2020, dated 22/07/2020, the following conditions are stipulated: <ul style="list-style-type: none"><li>• The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity/ toxicity/ flammability/ explosive materials stored/handling in the premises as defined in the MSIHC Rules, 1989 and the details shall be furnished to the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.</li></ul>	The stipulated conditions are following.

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	<b>Condition</b>	<b>Compliance</b>
	<ul style="list-style-type: none"><li>• The industry shall identify major accident hazard chemicals &amp; list out the hazardous chemicals endangered to human health &amp; environment and the details shall be furnished to the Factories Department and to the Regional Office, APPCB time to time duly certifying the same by the industry. Further the industry shall extend training to the working personnels while handling hazardous chemicals for prevention of accidents and necessary antidotes to ensure the safety, as per the MSIHC Rules, 1989.</li><li>• The industry shall submit the copy of the safety audit report and On-Site/ Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 &amp; 3 of MSIHC Rules, 1989.</li><li>• The industry shall carryout calibration of safety equipments and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.</li><li>• The industry shall inventorize the hazardous wastes and its quantities stored within the industry premises as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 (HOWM Rules, 2016) and shall furnish the details to Regional Office, APPCB on monthly basis duly certifying the same by the industry.</li></ul>	<p>The stipulated conditions are following.</p>



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5	The industry shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".	Following hazardous rules.
6	The industry shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Tran's boundary Movement) Rules, 2016.	Being Followed.
7	The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.	Following the CFO Conditions.
8	The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concern Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.	Following the CFO Conditions.
9	The industry shall maintain proper records for Hazardous & other wastes stated in Authorization in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 6 (5) of the Hazardous & Other Wastes (Management & Trans boundary Movement) Rules, 2016 and amendments thereof by June 30th for the period ensuring 31st March of the year.	We are submitting the Form -IV to RO once in three months.
10	The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B & C of this Order on half yearly basis to Board Office and concerned Regional Office.	Submitting the CFO Compliance as Schedule A, B & C conditions of every year January and July.



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**ANNEXURE-1**

WASTE WATER STP IN LET					WASTE WATER STP OUT LET				
Month	PH	TSS	Oil & Grease	BOD	Month	PH	TSS	Oil & Grease	BOD
					Limit	6.5-9.0	<100mg/l	10mg/l	30mg/l
Jul'21	7.39	199	5.20	37.30	Jul'21	7.49	27.1	1.90	13.20
Aug'21	7.46	212	5.40	39.30	Aug'21	7.51	28.3	2.10	14.10
Sept'21	7.47	241	5.60	37.20	Sept'21	7.57	29.6	2.40	14.70
Oct'21	7.49	239	5.40	35.30	Oct'21	7.51	27.3	2.30	14.90
Nove'21	7.52	246	5.60	34.10	Nove'21	7.49	26.8	2.50	15.30
Dece'21	7.54	239	5.20	33.20	Dece'21	7.53	24.2	2.20	14.20
Min	7.39	199	5.20	33.20	Min	7.49	24.20	1.90	13.20
Max	7.54	246	5.60	39.30	Max	7.57	29.60	2.50	15.30
AVG	7.48	229	5.40	36.07	AVG	7.52	27.22	2.23	14.40



## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.,
Address	Jettipallem, Rentachintala
Instrument S/No.:	01717
Instrument Make /Model:	Goyen Mecair (EMP6)
Location	Cement Mill-1
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

**Calibration Method:**

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

The results of instruments are as follows:

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	3.98	4.00	0.02	99.50
65 mg/Nm <sup>3</sup>	11.99	12.00	0.01	99.91
130 mg/Nm <sup>3</sup>	19.99	20.00	0.01	99.95

**Remarks**

This instrument described above has been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.78%  
Accuracy error : 0.22%

For  
Nevco Engineers Pvt.Ltd,

**NEVCO Engineers Pvt. Ltd.**

CIN No. 55-57-103 OF 1993-94 UL 210194

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Excellence in Measurements...

## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.,
Address	Jettipallem, Rentachintala
Instrument S/No.:	01710
Instrument Make /Model:	Guyen Mecair (EMP6)
Location	Cement Mill-2
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

### Calibration Method:

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

The results of instruments are as follows:

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	3.99	4.00	0.01	99.75
65 mg/Nm <sup>3</sup>	11.99	12.00	0.01	99.91
130 mg/Nm <sup>3</sup>	20.00	20.00	0.00	100.0

### Remarks

This instrument described above has been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.88%  
Accuracy error : 0.12%

For  
Neveco Engineers Pvt Ltd.

NEVCO Engineers Pvt. Ltd.

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Excellence in Measurements...

## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.
Address	Jettipallem, Rentachintala
Instrument S/No.:	01445
Instrument Make /Model:	Goyen Mecair (BMP6)
Location	Coal Mill-1
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

### Calibration Method:

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

### The results of instruments are as follows:

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	3.99	4.00	0.01	99.75
65 mg/Nm <sup>3</sup>	11.98	12.00	0.02	99.83
130 mg/Nm <sup>3</sup>	19.99	20.00	0.01	99.95

### Remarks

This instrument described above have been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.84%  
Accuracy error : 0.16%

For   
Nevco Engineers Pvt Ltd.

NEVCO Engineers Pvt. Ltd.

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Excellence in Measurements...

## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.,
Address	Jettipallem, Rentachintala
Instrument S/No.:	01715
Instrument Make /Model:	Goyen Mecair (EMP6)
Location	Coal mill 2
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

### Calibration Method:

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

The results of instruments are as follows:

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	3.99	4.00	0.01	99.75
65 mg/Nm <sup>3</sup>	12.00	12.00	0.00	100.00
130 mg/Nm <sup>3</sup>	19.98	20.00	0.02	99.90

### Remarks

This instrument described above has been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.88%  
Accuracy error : 0.12%

For  
Nevco Engineers Pvt Ltd.

NEVCO Engineers Pvt. Ltd.

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## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.,
Address	Jettipallem, Rentachintala
Instrument S/No.:	S5-2LIY5S-0649
Instrument Make /Model:	SINTROL (S305)
Location	Cooler-1
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

**Calibration Method:**

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

The results of instruments are as follows:

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	3.99	4.00	0.01	99.75
65 mg/Nm <sup>3</sup>	11.99	12.00	0.01	99.91
130 mg/Nm <sup>3</sup>	19.98	20.00	0.02	99.90

**Remarks**

This instrument described above has been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.85%  
Accuracy error : 0.15%

For  
Neveo Engineers Pvt Ltd.

NEVCO Engineers Pvt. Ltd.

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## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.,
Address	Jettipallam, Rentachintala
Instrument S/No.:	S5-21.1Y58-0650
Instrument Make /Model:	SINTROL (S305)
Location	Cooler -2
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

**Calibration Method:**

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

**The results of instruments are as follows:**

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	3.99	4.00	0.01	99.75
65 mg/Nm <sup>3</sup>	11.98	12.00	0.02	99.83
130 mg/Nm <sup>3</sup>	19.98	20.00	0.02	99.90

**Remarks**

This instrument described above has been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.82%  
Accuracy error : 0.18%

For  
Neveco Engineers Pvt Ltd.  
T.S.R



NEVCO Engineers Pvt. Ltd.

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**M/s. Parasakti Cement Industries Limited.,**

Jettopalem (V & Post)

Rentachintala (M),

Guntur (Dist.)-522 421.

**Consent Order No: APPCB/VJA/GTR/748/HO/CFO/2020-Date: 28/07/2020**



**CALIBRATION REPORT**

Date: 01.10.2021

Customer Name	M/S. Parasakti Cements Industries Ltd
Instrument	Continuous Emission Gas Monitoring Analyser
Principle	NDIR Sensor
Model No.	GA-1000F
Instrument Serial No.	GA-1002
Installed station	Kiln-1 station
Date of Calibration	30.09.2021
Next Calibration Date	30.12.2021

**CALIBRATION RESULTS**

Parameters	Zero Calibration (mg/m3)		Span Calibration (mg/m3)	
	Actual	Measured	Actual	Measured
Sulfur Dioxide (SO2)	0.0	0.1	1144.6	1141.7
Nitric Oxide (NO)	0.0	0.0	446.6	439.8

**Traceability:**

Supplier	Gas Name	Concentration (PPM)	Cylinder No.	Certificate No.	Validity
M/S. Chemtron Science Laboratories	SO2	437.0	CSL-50716	CSL-051220-12156-3-1	05.12.2021
M/S. Chemtron Science Laboratories	NO	364.0	CSL-50715	CSL-051220-12156-2-1	05.12.2021

The Instrument described above has been calibrated & found to comply with its published Performance specification with the points measured, which is valid for 3 months from the Date of calibration.

For:   
Neveco Engineers Pvt Ltd

**NEVCO Engineers Pvt. Ltd.**

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Universal Enviro Associates



T. Krishna  
(T Krishna)  
Technical Manager



## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.,
Address	Jettipallam, Rentachintala
Instrument S/No.:	S3-3LJY58-0633
Instrument Make /Model:	SINTROL (S303)
Location	Kiln-1
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

### Calibration Method:

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

The results of instruments are as follows:

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	3.99	4.00	0.01	99.75
65 mg/Nm <sup>3</sup>	12.00	12.00	0.00	100.00
130 mg/Nm <sup>3</sup>	19.99	20.00	0.01	99.95

### Remarks

This instrument described above has been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.90%  
Accuracy error : 0.10%

For  
Nevco Engineers Pvt. Ltd.

NEVCO Engineers Pvt. Ltd.

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**M/s. Parasakti Cement Industries Limited.,**

Jettopalem (V & Post)

Rentachintala (M),

Guntur (Dist.)-522 421.

**Consent Order No: APPCB/VJA/GTR/748/HO/CFO/2020-Date: 28/07/2020**

**NEVCO**

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**CALIBRATION REPORT**

Date: 01.10.2021

Customer Name	M/S. Parasakti Cements Industries Ltd
Instrument	Continuous Emission Gas Monitoring Analyser
Principle	NDIR Sensor
Model No.	GA-1000F
Instrument Serial No.	GA-1000
Installaed station	Kiln-2 station
Date of Calibration	30.09.2021
Next Calibration Date	30.12.2021

**CALIBRATION RESULTS**

Parameters	Zero Calibration (mg/m3)		Span Calibration (mg/m3)	
	Actual	Measured	Actual	Measured
Sulfur Dioxide (SO2)	0.0	0.1	1058.5	1049.7
Nitric Oxide (NO)	0.0	0.1	442.9	437.3

**Traceability:**

Supplier	Gas Name	Concentration (PPM)	Cylinder No.	Certificate No.	Validity
M/S. Chemtron Science Laboratories	SO2	404.0	A-137181	CSL-270720-10586-3-1	27.07.2021
M/S. Chemtron Science Laboratories	NO	361.0	A-137334	CSL-270720-10586-2-1	27.07.2021

The instrument described above has been calibrated & found to comply with its published Performance specification with the points measured, which is valid for 3 months from the Date of calibration.

For  
NEVCO Engineers Pvt Ltd

**NEVCO Engineers Pvt. Ltd.**

CIN No. 55-57-103 OF 1999-94 Dt. 27/01/94

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Universal Enviro Associates



T. Krishna  
(T Krishna)  
Technical Manager



Excellence in Measurements...

## Calibration Report

Date: 01.10.2021

Company Name	M/s. Parasakti Cement Industries Ltd.,
Address	Jettipallem, Rentachintala
Instrument S/No.:	S3-3I IY5S-01258
Instrument Make /Model:	SINTROL (S303)
Location	Kiln -2
Date of Calibration:	30.09.2021
Next Date of Calibration:	30.12.2021

### Calibration Method:

This instrument was calibrated based on the DOE requirement and refer to the British Standard Miniature smoke chart.

The results of instruments are as follows:

Calibration Point (mg/Nm <sup>3</sup> )	Measured Values [mA]	Standard Value [mA]	Difference [mA]	Accuracy (%)
0 mg/Nm <sup>3</sup>	4.00	4.00	0.00	100.00
65 mg/Nm <sup>3</sup>	11.99	12.00	0.01	99.91
130 mg/Nm <sup>3</sup>	19.99	20.00	0.01	99.95

### Remarks

This instrument described above has been calibrated and found to comply with its published performance specification at the point measured, which is valid for 3 months from the date of calibration.

Average Accuracy : 99.95%  
Accuracy error : 0.05%

For  
Neveco Engineers Pvt Ltd.

NEVCO Engineers Pvt. Ltd.

CIN No.: 55-57103 OF-1993-84 DL 270194

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Excellence in Measurements...

### CALIBRATION REPORT

<b>Company</b>	M/S.Parasakti Cement Industries Ltd.						
<b>Address</b>	Jettipallem, Rentachintala						
<b>Department</b>	Electrical and Instrumentation						
<b>Location</b>	Station-1 (Main Gate)						
<b>Instrument</b>	PM10 Ambient Dust Monitor						
<b>Make and Model</b>	OP SIS & SM200					<b>Calibration Date</b>	01.10.2021
<b>Serial No.</b>	SM200-1443						
<b>Calibrator kit</b>	Flow Meter					<b>Next Calibration Date</b>	01.01.2022
<b>Make and Model</b>	OP SIS & FM200						
<b>Serial No.</b>	FM200-L-020						
<b>Calibration Results:</b>							
<b>Flow Calibration:</b>							
FLOW (Liter/Minute)	SM200 (l/m)						
	Before	After	Deviation				
	15.11	16.66	1.55				
Note: Calibration done by using Standard Flow Meter "FM200".							
<b>Instrument Span &amp; Flow Factor Correction:</b>							
Span Factor				Flow Factor			
Before	After	Difference	Standard	Before	After	Difference	Standard
0.95	0.97	0.02	1.0 ± 0.2	2.013	2.098	0.085	< 3.00
<b>Span &amp; Leak Test Results</b>							
Span	Before			After			
	2.013	0.23	6.8	2.096	0.22	0.1	
Leak	6.2 kpa		0.0 pa	5.9 kpa		0.0 pa	
<b>Calibrated By:</b>							

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Excellence in Measurements...

### CALIBRATION REPORT

Company	M/S.Parasakti Cement Industries Ltd.		
Address	Jettipallem, Rentachintala		
Department	Electrical and Instrumentation		
Location	Station-1 (Main Gate)		
Instrument	PM2.5 Ambient Dust Monitor		
Make and Model	OP SIS & SM200	Calibration Date	01.10.2021
Serial No.	SM200-1444		
Calibrator kit	Flow Meter	Next Calibration Date	01.01.2022
Make and Model	OP SIS & FM200		
Serial No.	FM200-L-020		

**Calibration Results:**

**Flow Calibration:**

FLOW (Liter/Minute)	SM200 (l/m)		
	Before	After	Deviation
	14.86	16.66	1.80

Note: Calibration done by using Standard Flow Meter "FM200".

**Instrument Span & Flow Factor Correction:**

Span Factor				Flow Factor			
Before	After	Difference	Standard	Before	After	Difference	Standard
0.97	0.98	0.01	1.0 ± 0.2	2.096	2.136	0.040	< 3.00

**Span & Leak Test Results**

	Before			After		
	Span	2.096	0.22	4.9	2.136	0.23
Leak	5.7 kpa		0.0 pa	5.8 kpa		0.0 pa

Calibrated By:



NEVCO Engineers Pvt. Ltd.

CIN No.: 35-37-03 OF 1993-94 DL 270194

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**M/s. Parasakti Cement Industries Limited.,**

Jettopalem (V & Post)

Rentachintala (M),

Guntur (Dist.)-522 421.

**Consent Order No: APPCB/VJA/GTR/748/HO/CFO/2020-Date: 28/07/2020**



*Excellence in Measurements...*

**CALIBRATION REPORT**

<b>Company</b>	M/S.Parasakti Cement Industries Ltd.		
<b>Address</b>	Jettipalem, Rentachintala		
<b>Department</b>	Electrical and Instrumentation		
<b>Location</b>	Station-2 (Mines)		
<b>Instrument</b>	PM10 Ambient Dust Monitor		
<b>Make and Model</b>	OP SIS & SM200	<b>Calibration Date</b>	01.10.2021
<b>Serial No.</b>	SM200-1483		
<b>Calibrator kit</b>	Flow Meter	<b>Next Calibration Date</b>	01.01.2022
<b>Make and Model</b>	OP SIS & FM200		
<b>Serial No.</b>	FM200-L-020		

**Calibration Results:**

**Flow Calibration:**

FLOW (Liter/Minute)	SM200 (l/m)		
	Before	After	Deviation
	15.75	16.66	0.91

Note: Calibration done by using Standard Flow Meter "FM200".

**Instrument Span & Flow Factor Correction:**

Span Factor				Flow Factor			
Before	After	Difference	Standard	Before	After	Difference	Standard
1.00	0.99	-0.01	1.0 ± 0.2	2.123	2.145	0.022	± 3.00

**Span & Leak Test Results**

	Before			After		
	Span	Leak	Standard	Span	Leak	Standard
Span	2.123	0.23	9.8	2.123	0.22	0.3
Leak	5.3 kpa		0.0 pa	5.6 kpa		0.0 pa

Calibrated By:

**NEVCO Engineers Pvt. Ltd.**

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Universal Enviro Associates



T. Krishna  
(T Krishna)  
Technical Manager

**M/s. Parasakti Cement Industries Limited.,**


Jettopalem (V & Post)

Rentachintala (M),

Guntur (Dist.)-522 421.

**Consent Order No: APPCB/VJA/GTR/748/HO/CFO/2020-Date: 28/07/2020**



<b>CALIBRATION REPORT</b>							
<b>Company</b>	M/S.Parasakti Cement Industries Ltd.						
<b>Address</b>	Jettipallaem, Rentachintala						
<b>Department</b>	Electrical and Instrumentation						
<b>Location</b>	Station-2 (Mines)						
<b>Instrument</b>	PM2.5 Ambient Dust Monitor						
<b>Make and Model</b>	OP SIS & SM200					Calibration Date	01.10.2021
<b>Serial No.</b>	SM200-1485						
<b>Calibrator kit</b>	Flow Meter					Next Calibration Date	01.01.2022
<b>Make and Model</b>	OP SIS & FM200						
<b>Serial No.</b>	FM200-L-020						
<b>Calibration Results:</b>							
<b>Flow Calibration:</b>							
FLOW (Liter/Minute)	SM200 (l/min)						
	Before	After	Deviation				
	15.38	16.66	1.28				
Note: Calibration done by using Standard Flow Meter "FM200".							
<b>Instrument Span &amp; Flow Factor Correction:</b>							
Span Factor				Flow Factor			
Before	After	Difference	Standard	Before	After	Difference	Standard
0.98	0.97	-0.01	1.0 ± 0.2	2.155	2.111	-0.044	< 3.00
<b>Span &amp; Leak Test Results</b>							
	Before			After			
Span	2.155	0.22	7.6	2.111	0.23	0.2	
Leak	5.1 kpa		0.0 pa	5.2 kpa		0.0 pa	
 <b>Calibrated By:</b>							

**NEVCO Engineers Pvt. Ltd.**

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Universal Enviro Associates



*T. Krishna*  
(T Krishna)  
Technical Manager

Annexre-03

GOVERNMENT OF ANDHRA PRADESH  
ABSTRACT

Water Resources Department- Renewal of agreement to M/s Parasakti Cement Industries Limited for drawl of 1865 KLD (0.762 cusecs) of water from Krishna River near Satrasala in Guntur District- Permission accorded- Orders – Issued.

WATER RESOURCES (REFORMS) DEPARTMENT

G.O.Ms.No. 66

Dated: 10.12.2020

Read the following:

1. Proceeding No. CE/KDS/VJA/OT3/AE10/Industrial Water/2862, dt. 23.11.2017.
2. Proceeding No. SE/IC/VJA/DB/ITO-7/F-Ind/588M, dated: 30.05.2018
3. From M/s Parasakti Cements, Hyderabad, letter No. PCIL/P&A/Splcs-WRD/2020-2021, dated: 26.05.2020.
4. Govt. Memo No.ICDO1-COORDMISC/37/2020/REFORMS, dated:27.05.2020.
5. From the ENC (I), WRD, Vijayawada, Lr.No. ENC (I)/EE/AEE2/IWS (Parasakti Cement), dated: 10.11.2020.

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**ORDER**

The Engineer-in-Chief (Irrigation), Water Resources Department, Vijayawada, in the letter 5<sup>th</sup> read above has stated that in the Proceedings 1<sup>st</sup> & 2<sup>nd</sup> read above, the original permission was accorded to M/s Parasakti Cement Industries Ltd., for drawl of 1865 KLD (0.762 cusecs) of water from Krishna River near Satrasala In Guntur District for a period of 2 years, subject to certain terms and conditions, which was expired on 30.05.2020. Therefore, the Engineer-in-Chief (Irrigation), Water Resources Department, Vijayawada based on the report furnished by the Chief Engineer, KDS, Vijayawada, has recommended the proposal to the Government for renewal of permission for drawl of water of 1865 KLD (0.762 cusecs) from Krishna River near Satrasala in Guntur District for a further period of 5 years, with effect from 30-05-2020, subject to usual terms & conditions.

2. After careful examination of the matter, Government hereby accord renewal of permission for drawl of 1865 KLD (0.762 cusecs) of water from Krishna River near Satrasala in Guntur District, to M/s Parasakti Cement Industries Limited, Jettipalem (V), Rentachintala(M), Guntur District, with effect from 30-05-2020, subject to the terms and conditions as was issued in the earlier Proceedings 1<sup>st</sup> read above, subject to the payment of water royalty charges @ Rs. 5.50/- per 1000 gallons for consumptive use as per Government Memo No. 2772/Reforms/A2/2015-1, dated: 30-09-2015. The water

**M/s. Parasakti Cement Industries Limited.,**

Jettopalem (V & Post)

Rentachintala (M),

Guntur (Dist.)-522 421.

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royalty charges are likely to be revised by the Government from time to time and the industry shall pay the revised rates as fixed by the Government from time to time. In case, if the industry is getting closed, then the allocation will be automatically gets cancelled.

3. The Engineer-in-Chief (Irrigation), Water Resources Department, Vijayawada, the Chief Engineer, Krishna Delta System, Water Resources Department, Vijayawada, and the Collector & District Magistrate of Guntur District shall take necessary action accordingly.

**(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)**

**ADITYA NATH DAS**  
**SPL. CHIEF SECRETARY TO GOVERNMENT**

To  
The Engineer-in-Chief (Irrigation), Water Resources Department,  
Andhra Pradesh, Vijayawada.  
The Chief Engineer, Krishna Delta System,  
Water Resources Department, Vijayawada.  
The Collector & District Magistrate, Krishna District.  
The Officer concerned, District Pollution Control Board, Guntur District.

Copy to:

✓ The Managing Director, M/s Parasakti Cement Industries Ltd.,  
Jettipalem (V), Rentachintala (M), Guntur District.  
The P.S. to the Hon'ble Minister for Water Resources Department.  
The P.S. the Spl. C.S to Government, Water Resources Department.  
SF/SC

**//FORWARDED::BY ORDER//**

*P. K. Shamma*  
**SECTION OFFICER**



M/s. Parasakti Cement Industries Limited.,

Jettopalem (V & Post)

Rentachintala (M),

Guntur (Dist.)-522 421.

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Annexure-4

Month	Particulate Matter	SO <sub>2</sub>	NOx (before Notification) NOx
	30mg/Nm <sup>3</sup>	100 mg/Nm <sup>3</sup>	800mg/Nm <sup>3</sup>
JUL'21	19.70	35.30	376
AUG'21	21.20	37.90	389
SEP'21	22.90	35.20	396
OCT'21	23.10	37.10	399
NOV'21	22.60	36.90	388
DEC'21	19.60	35.40	396
Min	19.60	35.20	376
Max	23.10	37.90	399
AVG	21.52	36.30	391

