



## ANDHRA PRADESH POLLUTION CONTROL BOARD

D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,  
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010

Website: www.pcb.ap.gov.in

### CONSENT TO ESTABLISH ORDER

**Order No.145/APPCB/CFE/RO-ATP/HO/2010**

**29/11/2022**

Sub: APPCB – CTE - **M/s. Sagar Cements (R) Ltd., Gudipadu (V), Yadiki (M), Ananthapuramu District - Consent to Establish (CTE) for Expansion** of the Board under Sec.25 of Water (P & C of P) Act, 1974 and under Sec.21 of Air (P & C of P) Act, 1981 - Issued - Reg.

- Ref:
1. EC Orders dt.26.02.2010, 03.05.2019, 05-09-2022 and 31.10.2022 issued by SEIAA, AP.
  2. Industry's CTE(exp) application received through APOCMMS on 01.11.2022.
  3. R.O's inspection report dt.08.11.2022.
  4. Industry's mail dt.17.11.2022.
  5. CFE Committee meeting held on 17.11.2022.

1. **M/s. Sagar Cements (R) Ltd.**, vide reference 2<sup>nd</sup> cited, submitted an application to the Board seeking Consent to Establish (CTE) for expansion of Cement plant with Captive power plant as following, with an additional investment of Rs.5.0 Crores.

Sl. No	Name of the Products	Capacity as per EC Order dt.31.10.2022 after Expansion	Capacity as per CFO Order dt.14.12.2020 & 29.04.2021	Expansion	Total capacity after CTE expansion
1.	Clinker	3.0 Million TPA	0.75 Million TPA	0.25 Million TPA	1.0 Million TPA
2.	Cement	4.0 Million TPA	0.95 Million TPA	0.40 Million TPA	1.35 Million TPA
3.	Electricity	40 MW	25 MW	Nil	25 MW

2. As per the application, the above activity is to be located in the exiting premises at Gudipadu (V), Yadiki (M), Ananthapuramu District in an area of 80Ha.
3. The above site was inspected by the Environmental Engineer & Asst. Environmental Engineer, Regional Office, Ananthapuramu, A.P Pollution Control Board on 05.11.2022 and found that the site is surrounded by the following:

**North** : Vacant lands  
**South** : Vacant lands  
**East** : Mine lease area  
**West** : Vacant Lands

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT TO ESTABLISH for Expansion** to the project under Section 25 of Water (Prevention & Control of Pollution)

Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in the Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. **This order is valid for period of 7 years from the date of issue.**

Encl: Annexure.

**VIJAY KUMAR GSRKR IAS, MEMBER SECY(GSRKRVK), O/o MEMBER SECRETARY-APPCCB**

**To**

**M/s. Sagar Cements (R) Limited.,  
Gudipadu (V), Yadiki (M),  
Ananthapuramu District.  
E-Mail: [vvprasad@sagarcements.in](mailto:vvprasad@sagarcements.in)**

**Copy to:** 1. The JCEE, Z.O: Kurnool for information and necessary action.  
2. The E.E., R.O: Ananthapuramu for information and necessary action.

**ANNEXURE**

1. The proponent shall obtain Consent to operate from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
2. The applicant shall provide separate energy meters for Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.

**Water:**

4. The source of water is Ground water and Mine sump water. The maximum permitted water consumption is as following:

S. No.	Purpose	Qty as per CFO dt.14.12.2020 & 29.04.2021(KLD)	Proposed for expansion(KLD)	Total qty after CTE expansion (KLD)
1.	Cooling (Cement Plant)	500	50	550
2.	Filter backwash	-	-	-
3.	Boiler Feed	35.0	-	35.0
4.	Cooling (Power plant)	70.0	-	70.0
5.	Service water	-	-	-
6.	Softner / DM & RO Plant	45	-	45
7.	Domestic(Plant & colony)	200	-	200
8.	Dust Suppression / Plantation	45	20	65
9.	Domestic (Power Plant)	5.0	-	5.0
<b>Total:</b>		<b>900 KLD</b>	<b>70 KLD</b>	<b>970 KLD</b>

Separate flow meters with totalisers to necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.

5. The maximum waste water generation shall not exceed the following:

S. No.	Source	Qty as per CFO dt.14.12.2020 & 29.04.2021(KLD)	Proposed for expansion(KLD)	Total qty after CTE expansion (KLD)
a)	Filter backwash	-	-	-
b)	Boiler blow down	5	-	5
c)	Cooling (Power Plant)	20	-	20
d)	Service water	6	-	-

e)	Softner / DM Plant	20	-	20
f)	Domestic (Plant & colony)	170	-	170
h)	Domestic (Power plant)	4	-	4
<b>Total:</b>		<b>225 KLD</b>	<b>-</b>	<b>219 KLD</b>

**Treatment and disposal:**

Source of Effluent	Treatment	Mode of Final disposal
Boiler blow down, Cooling tower Blow down & RO Rejects from Power plant	Neutralization pit of capacity 24.0 KLD.	After treatment, the treated wastewater shall be used onland for irrigation within the premises.
Domestic	Sewage Treatment Plant of capacity 200 KLD consisting of screen chamber, grit chamber, aeration tank, secondary clarifier and sludge drying beds.	Shall be used onland for irrigation within the premises / shall be recycled into the process.

6. Under no circumstances the waste water shall be discharged outside the factory premises.
7. The effluents shall be treated to the on land for irrigation standards, stipulated under Environment (Protection) Rules, 1986, notified and published by Ministry of Environment and Forests, Government of India as specified in Schedule VI vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof.

**Air:**

8. The air emissions from the pollution sources shall comply with the following:

S. No.	Source of Pollution	Control equipment provided	Stack height above GL
<b>Cement plant:</b>			
1	Stack attached to Raw mill / Kiln	RABH	116.85 m
2	Stack attached to cooler	ESP	40 m
3	Stack attached to Cement mill	Bag filters	40 m
4	Stack attached to Coal mill	Bag filters	35.5 m
<b>Power plant:</b>			
5	Stack attached to AFBC Boiler	ESP	76 m

9. The industry shall comply with the emission standards stipulated by the MoEF & CC, GoI, vide Notification dt.25.08.2014.
10. **The industry shall not store raw materials in open area.**
11. The Bag filters shall be designed such that 25% of additional capacity is available as spare to meet the emergency requirements.
12. The industry shall provide concrete roads in the plant to avoid the fugitive dust emissions. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads.
13. The proponent shall provide online stack monitoring facility for all the major stacks and the data generated shall be networked with APPCB and CPCB for web display.
14. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MOE&F, GOI vide notification No. GSR 826(E), dated. 16.11.2009, during construction and regular operational phase of the project.
15. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
16. The proponent 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 the air pollution control equipments fails.
17. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB (A) during day time and 70 dB (A) during night time.

**Solid waste:**

18. The proponent shall comply with the following:

S. No.	Name of the waste	Qty as per CFO Order dt. 14.12.2020, 29.04.2021 & 12.09.2022	Proposed for Expansion	Disposal Option
<b>Cement plant</b>				
1.	Used Oil & Waste grease	24 KL/annum	Nil	Shall be routed through APEMC to authorized Re-processors / Recyclers / to the Cement industries for co-processing in the kiln.
2.	Hi-chrome grinding media from process	2.50 TPA	Nil	Shall be routed through APEMC to be disposed to recyclers / return back to suppliers
3.	Leaching sludge	10,000 TPA	--	Shall be routed through APEMC to use as a raw mix component

	/chrome sludge			in clinker manufacturing
<b>Power plant</b>				
4.	Waste Oil	350 Ltrs/annum	Nil	Shall be routed through APEMC to authorized Re-processors / Recyclers / to the Cement industries for co-processing in the kiln.
5.	Waste Grease	50 Kg/annum	Nil	
6.	Used Batteries	50 Nos./annum	Nil	Shall be routed through APEMC to dealers on buy back system

**Non- Hazardous waste:**

S. No.	Name of the waste	Existing Qty	Proposed for Expansion	Total Qty after expansion	Disposal Option
1	Process (Dust from Bag filters)	5.0 TPD	70 TPD	75 TPD	To be reused in the process.
2	STP sludge	2.0 TPA	Nil	2.0 TPA	To be utilized as manure within the premises.
3	Fly Ash from Boiler	80 TPD	100 TPD	180 TPD	To be reused in the process for Cement Manufacturing.
4	Bed Ash from Boiler	5 TPD	--	5 TPD	To be partly used in the land filling in the low laying and partly reused in the process of cement manufacturing.

19. The following rules and regulations notified by the MoEF&CC, GoI and its amendments thereof shall be implemented.

- a) Regulation of Persistent Organic Pollutants Rules, 2018.
- b) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
- c) Plastic Waste Management Rules, 2016.
- d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
- e) Fly Ash Notification, 2016 and its amendments thereof.
- f) Batteries (Management & Handling) Rules, 2010.
- g) E-Waste (Management) Rules, 2016.
- h) Construction and Demolition waste Management Rules, 2016.
- i) Solid Waste Management Rules, 2016.
- j) The Public Liability Insurance Act, 1991 and its amendments thereof.

**Other Conditions:**

20. **The industry shall comply with following conditions before applying for CTO of the Board:**

- The industry shall connect all the online stack monitoring systems to CPCB & APPCB website. The Particulate Matter (PM) stack emissions from the Power Plant shall not exceed 30mg/Nm<sup>3</sup> as stipulated in the EC order.
- The industry shall also comply with the ambient air quality standards of PM<sub>10</sub> -100mg/m<sup>3</sup>, PM<sub>2.5</sub> -60mg/m<sup>3</sup>, SO<sub>2</sub> -80mg/m<sup>3</sup>, NO<sub>x</sub> -80mg/m<sup>3</sup> outside the factory premises at the periphery of the industry.
- The industry shall not increase the capacity beyond the permitted capacity

- mentioned in this order, without obtaining CTE & CTO of the Board.
- The industry shall not store the fuels, raw materials, and wastes in open area. They shall be stored in the sheds. They shall be transported/received in covered conditions to control fugitive emissions & odor nuisance.
  - The industry shall furnish opening and closing stock of Pet Coke along with quantity of Pet Coke consumption during the month to the Board on quarterly basis. The industry shall not exceed the monthly consumption of Pet coke.
  - The industry shall rectify the non-compliances observed during randomized inspection of the Board officials like non-working of SO<sub>2</sub> online systems; Inlet flow meter of STP immediately.
  - The industry shall take necessary measures to reduce no. of exceedances of standards both in the stack emissions and ambient air quality.
21. 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., on all sources of noise generation.
22. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
23. **The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.**
24. **The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.**
25. **The industry shall submit risk assessment report covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.**
26. **The industry shall obtain PESO clearance & policy under PLI Act before applying for CTO of the Board.**
27. The industry shall utilize DG power for captive consumption only & power shall not be supplied to grid and shall follow the amendments issued by MoEF & CC/CPCB from time to time on DG sets in respect of conditions & standards.
28. Thick green belt shall be maintained all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.
29. **The industry shall submit compliance to the conditions stipulated in the CTE orders to the concerned Regional Officer of APPCB every six months and shall upload the same at APPCB website viz., [https://pcb.ap.gov.in/UI/Submission\\_Compliance\\_of\\_EC\\_CTE\\_CFO\\_Direction.aspx](https://pcb.ap.gov.in/UI/Submission_Compliance_of_EC_CTE_CFO_Direction.aspx) .**
30. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.
31. Concealing the factual data or submission of false information / fabricated data and

failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.

32. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
33. 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 such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**VIJAY KUMAR GSRKR**  
**IAS, MEMBER**  
**SECY(GSRKRVK), O/o**  
**MEMBER SECRETARY-APPCB**

**To**

**M/s. Sagar Cements (R) Limited.,**  
**Gudipadu (V), Yadiki (M),**  
**Ananthapuramu District.**



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Website: www.pcb.ap.gov.in

**CONSENT ORDER FOR ESTABLISHMENT****Lr. No. 145/APPCCB/CFE/RO-KNL/HO/2010****06/05/2022**

Sub: APPCCB – CFE - **M/s. Sagar Cements (R) Ltd., Gudipadu (V), Yadiki(M), Ananthapuramu District – Consent for Establishment (CFE)** of the Board for **usage of alternative fuels in the Kiln** under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P & C of P) Act, 1981 - Issued - Reg.

Ref: 1. EC (exp) order dt. 03.05.2019 issued by SEIAA, AP.  
2. Industry's CFE application received through APOCMMS on 25.02.2022.  
3. R.O's inspection report dt.15.03.2022.  
4. T.O. Ir. dt. 29.03.2022.  
5. CFE Committee meeting held on 31.03.2022.

In the reference 2<sup>nd</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **usage of alternative fuels in the Kiln** to produce the following products with capacity as mentioned below, with an additional investment of Rs.50.0 Lakhs.

S. No.	Name of the Products	Consented capacity as per EC dt: 26.02.2010 & 03.05.2019	Consented capacity as per CFE dt.09.08.2010 & 21.02.2019	Consented capacity as per CFO dt.14.12.2020 & 29.04.2021
1.	Clinker	0.75 Million TPA	0.75 Million TPA	0.75 Million TPA
2.	Cement	0.95 Million TPA	0.95 Million TPA	0.95 Million TPA
3.	Power (captive consumption)	25 MW	25 MW	25 MW

**Raw material and chemicals used:**

S. No.	Name of the Major Raw material	Existing (Million TPA)	Expansion (Million TPA)
1.	Limestone	1.00	---
2.	Iron ore	0.025	---
3.	Laterite	0.05	---
4.	Bauxite	0.04	---
5.	Gypsum	0.03	---
6.	Fly ash	0.099	---
7.	Slag	0.075	---
8.	Indigenous/Imported Coal	0.112	---
9.	Pet coke	0.0799	---

<b>For the alternate fuel:</b>			
10.	Carbon Black	0.010	----
11.	Spent Carbon	0.005	----
12.	Municipal Waste	0.0050	----
13.	Plastic Waste	0.0050	----
14.	Bio mass (Rice Husk or Coconut shells or Ground nut Husk or waste wood or Mango kernels etc).	0.0150	---
15.	Pharmaceutical Waste(Solid/Semi solid)	0.0050	----
16.	Dolochar	0.01	
17.	Alternative fuel and raw materials  At present the industry has applied for Consent for Establishment (CFE) of the Board for usage of Hazardous waste i.e., sludge and filters contaminated with oil (3.3 of Schedule-I), oil sludge or emulsion (4.1 of Schedule-I), Spent clay containing oil (4.5 of Schedule-I), Used or spent oil , Wastes or residues containing oil/Grease (5.1 & 5.2 of Schedule-I), Contaminated aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse (20.1 of Sch-I), Spent Solvents (20.2 of schedule I), Distillation Residues (20.3 of schedule I), Process sludge (20.4 of schedule I), Process wastes, residues and sludges(21.1 of Schedule I) Spent Solvent (21.2 of Schedule I) Process residue (28.1 of schedule I) Spent Catalyst (28.2 of schedule I), Off specification products (28.4 of schedule I), Date - Expired Products (28.5 of schedule I), Spent Solvents (28.6 of schedule I) Contaminated cotton rags or other cleaning materials (33.2 of schedule I), Spent ion exchange resin containing toxic metals (35.2 of schedule I), ETP Sludge (35.3 of schedule I), Any process or distillation residue (36.1 of schedule I) - 20,000 TPA as an alternate fuel in the Cement Kiln.	--	0.02

2. As per the application, the above activity is to be located within existing premises at Gudipadu (V), Yadiki (M), Ananthapuramu District in an area of 197.6 acres.

3. The above site was inspected by the Environmental Engineer & Asst. Environmental Engineer, Regional Office, Ananthapuramu, A.P Pollution Control Board on 04.03.2022 and found that the site is surrounded by the following:

**North** : Vacant lands  
**South** : Vacant lands  
**East** : Mine lease area  
**West** : Vacant lands

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT** for **usage of alternative fuels in the Kiln** to the project under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**
5. This Consent Order now issued is subject to the conditions mentioned in the Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. **This order is valid for period of 7 years from the date of issue.**

Encl: Annexure.

KANDAVALLI VENKATESWARA RAO, CEE(KVR), O/o CHIEF ENVIRONMENTAL ENGINEER-APPCCB

**To**

**M/s. Sagar Cements (R) Ltd.,  
Gudipadu (V), Yadiki (M),  
Ananthapuramu District.  
vvprasad@sagarcements.in  
srikanthch@sagarcements.in**

**Copy to:** 1. The JCEE, Z.O: Kurnool for information and necessary action.  
2. The E.E., R.O: Ananthapuramu for information and necessary action.

**ANNEXURE**

1. The proponent shall obtain Consents for operation from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
2. The applicant shall provide separate energy meters for Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.
4. **There is no change in water consumption, waste water generation, treated effluent disposal; air pollution sources and control equipment; solid waste generated and its disposal etc.,**

**The industry shall not store raw materials in open area.**

5.

The Bag filters shall be designed such that 25% of additional capacity is available as spare 6. to meet the emergency requirements.

The industry shall provide concrete roads in the plant to avoid the fugitive dust emissions. 7. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads.

The proponent shall provide online stack monitoring facility for all the major stacks and the 8. data generated shall be networked with APPCB and CPCB for web display.

The proponent shall ensure compliance of the National Ambient Air quality standards 9. notified by MOE&F, GOI vide notification No. GSR 826(E), dated. 16.11.2009, during construction and regular operational phase of the project.

A sampling port with removable dummy of not less than 15 cm diameter shall be provided 1 in the stack at a distance of 8 times the diameter of the stack from the nearest constraint 0. such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.

The proponent shall provide interlocking system for air pollution control equipments 1 provided with raw material feeding system so that the feeding of raw material would be 1. stopped in case the air pollution control equipments fails.

The generator shall be installed in a closed area with a silencer and suitable noise 1 absorption systems. The ambient noise level shall not exceed 75 dB (A) during day time 2. and 70 dB (A) during night time.

13. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.

- a) Regulation of Persistent Organic Pollutants Rules, 2018.
- b) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.

- c) Plastic Waste Management Rules, 2016.
- d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
- e) Fly Ash Notification, 2016.
- f) Batteries (Management & Handling) Rules, 2010.
- g) E-Waste (Management) Rules, 2016.
- h) Construction and Demolition waste Management Rules, 2016.
- i) Solid Waste Management Rules, 2016.

**Other Conditions:**

**14. The industry shall comply with the following conditions as committed during the CFE Committee meeting held on 31.03.2022:**

- Dump shall be cleared and shall not be repeated in future.
- **The industry shall follow the SOP prescribed by the CPCB for usage of alternative fuels in the Kiln.**
- The industry shall manufacture Clinker of consented capacity of 0.75 million TPA only.
- The industry shall submit the quantities of above materials consumed during last two financial years.
- VOC meter shall be installed.
- Raw materials / hazardous materials shall be stored in a shed.

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., on all sources of noise generation.

16. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.

17. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.

18. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.

19. 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 such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**KANDAVALLI VENKATESWARA RAO, CEE(KVR),  
O/o CHIEF ENVIRONMENTAL ENGINEER-APPCB**

**M/s. Sagar Cements (R) Ltd.,  
Gudipadu (V), Yadiki(M),**

**Ananthapuramu District.**



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
**D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,**  
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Website :www.appcb.ap.nic.in

**CONSENT ORDER FOR ESTABLISHMENT**

**Order No.145/PCB/CFE/RO-KNL/HO/2010**

**Dt: 15.12.2021**

Sub: APPCB – CFE - **M/s. Sagar Cements (R) Ltd., Gudipadu (V), Yadiki (M), Anantapuram District – Consent for Establishment (CFE) for usage of Alternate Fuel In Cement Kiln** of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P & C of P) Act, 1981 - Issued - Reg.

- Ref:
1. EC Order dt. 26.02.2010 issued by MoEF & CC, Gol, New Delhi.
  2. CFE Order dt. 09.08.2010.
  3. CFE Amendment Order dt.22.03.2018
  4. EC order dt: 03.05.2019 issued by SEIAA, A.P.
  5. CFE expansion order dt: 21.02.2019 for clinker production.
  6. Industry's CFE application received through AP OCMMS on 16.11.2021.
  7. R.O's inspection report dt.03.12.2021.
  8. CFE Committee meeting held on 09.12.2021.

1. In the reference 6<sup>th</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **usage of Alternate Fuels In Cement Kiln** to produce the following products, with an additional project cost of Rs.1.0 Lakh.

S. No.	Name of the Products	As per EC 26.02.2010 & 03.05.2019	As per CFE dt.09.08.2010& 21.02.2019.	Qty of Alternative fuel
1.	Clinker	0.75 Million TPA	0.75 Million TPA	
2.	Cement	0.95 Million TPA	0.95 Million TPA	
3.	Power (captive consumption )	25 MW	25 MW	
	<b>Fuels for the kiln</b>			
4.	Pet coke			6666.66 TPM (as per CFE (amend) order dt.22.03.2018)
5.	i) Pharmaceutical industries Waste (Solid/Semi Solid) ii) Carbon Black iii) Spent Carbon iv) Municipal waste v) Plastic waste vi) Bio mass (Rice Husk, Coconut coir, Ground nut Husk etc.)			0.0050 million TPA  0.010 million TPA 0.0050 million TPA 0.0050 million TPA 0.0050 million TPA 0.0050 million TPA ( as per CFE (amend) dt.04.06.2019)

6.	Dolochar			10,000TPA (new)
7.	Bio mass (Rice Husk or Coconut shells or Ground nut Husk or Mango kernels )			10,000 TPA (new)

2. As per the application, the above activity is to be located at **Gudipadu(V), Yadiki(M), Anantapuram District** in an an additional area of 840 sq.m (0.019 acre)
3. The above site was inspected by the Environmental Engineer & Assistant Environmental Engineer, Regional Office, Ananthapuramu District, A.P Pollution Control Board on 01.12.2021 and found that the site is surrounded by the following:
  - North** : Vacant lands
  - South** : Vacant lands
  - East** : Mine lease area
  - West** : Vacant lands
4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT for usage of Alternate Fuel In Cement Kiln** to the project under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**
5. This Consent Order now issued is subject to the conditions mentioned in the Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. **This order is valid for period of 7 years from the date of issue.**

Encl: Annexure.

**CHIEF ENVIRONMENTAL ENGINEER**

To

**M/s. Sagar Cements (R) Ltd.,  
Gudipadu (V), Yadiki(M),  
Ananthapuramu District.  
[vvprasad@sagarcements.in](mailto:vvprasad@sagarcements.in)  
[srikanthch@sagarcements.in](mailto:srikanthch@sagarcements.in)**

- Copy to:** 1. The JCEE, Z.O: Kurnool for information and necessary action.  
2. The E.E., R.O: Ananthapuramu for information and necessary action.



## ANNEXURE

1. The proponent shall obtain Consents for operation from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
2. The applicant shall provide separate energy meters for Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.

### Water:

4. The source of water is Mine pit/Bore well. The maximum permitted water consumption is as following:

S. No.	Purpose	As per CFE order dt.21.02.2019 in (KLD)	Proposed	Total water consumption (KLD)
a)	Cooling (Cement Plant)	500.0	<b>Nil</b>	500.0
b)	Filter backwash	15.0		15.0
c)	Boiler Feed	30.0		30.0
d)	Cooling (Power plant)	2430.0		2430.0
e)	Service water	10.0		10.0
f)	Softner / DM Plant	15.0		15.0
g)	Domestic(Plant & colony)	200.0		200.0
	<b>Total * (fresh + recycled)</b>	<b>3200.0</b>		<b>3200.0</b>

Separate flow meters with totalisers to necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.

5. The maximum waste water generation shall not exceed the following:

S. No.	Source	As per CFE order dt.21.02.2019 in (KLD)	Proposed	Total waste water (KLD)
a)	Filter backwash	15.0	<b>Nil</b>	15.0
b)	Boiler blow down	24.0		24.0
c)	Cooling	490.0		490.0
d)	Service water	6.0		6.0
e)	Softner / DM Plant	15.0		15.0
f)	Domestic (Plant & colony)	170.0		170.0
	<b>Total:</b>	<b>720</b>	<b>720</b>	

**Treatment & Disposal :**

Effluent source	Treatment	Mode of final disposal
D.M. Plant- 15.0 KLD	Neutralization	Shall be collected in CMB and recycle into the process for cooling purpose.
Cooling tower-490.0 KLD, Boiler -24 KLD & filter back wash-15 KLD	Settling tank	
Service water-6KLD	Oil & Grease trap	
Domestic (Plant & Colony)- 170 KLD	STP (200 KLD capacity)	Recycled into process / Greenbelt development

**Proposed:** There is no additional generation of waste water for the usage of alternate fuel in the Kiln

6. Under no circumstances the waste water shall be discharged outside the factory premises.
7. The sewage shall be treated to the on land for irrigation standards, stipulated under Environment (Protection) Rules, 1986, notified and published by Ministry of Environment and Forests, Government of India as specified in Schedule VI vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof.

**Air:**

8. The air emissions from the pollution sources shall comply with the following:

**Existing:**

S. No.	Details of Stack	Stack 1	Stack 2	Stack 3	Stack 4	Stack 5
a)	Attached to	Boiler	Raw mill / Kiln	Cooler	Cement mill	Coal mill
b)	Capacity	110 TPH	2000 TPD	2500 TPD	150 TPH	23 TPH
c)	Fuel from	Coal - 430 TPD	Coal – 370 TPD or petcoke – 6666.66 TPM	---	---	---
d)	Stack height	70 m	90 m	40 m	40 m	35 m
e)	Control Equipment	ESP	Reverse Air Bag House	ESP	Bag filters	Bag filters

**Proposed : Nil**

9. The industry shall comply with the emission standards stipulated by the MoEF & CC, GoI, New Delhi from time to time.
10. The Bag filters shall be designed such that 25% of additional capacity is available as spare to meet the emergency requirements.
11. The proponent shall provide online stack monitoring facility for all the major stacks and the data generated shall be networked with APPCB and CPCB for web display.
12. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MOE&F, GOI vide notification No. GSR 826(E), dated. 16.11.2009, during construction and regular operational phase of the project.
13. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
14. The proponent 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 the air pollution control equipments fails.
15. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB (A) during day time and 70 dB (A) during night time.

**Solid Waste:**

16. The proponent shall comply with the following:

<b>S. No</b>	<b>Solid Waste generated from</b>	<b>Existing qty (as per CFE order dt.21.02.2019)</b>	<b>Total qty after expansion activity</b>	<b>Mode of Disposal</b>
1.	Hi-chrome grinding media from process	2.50 TPA	2.50 TPA	Shall be Recycled / replaced by the suppliers
2.	STP Sludge	2.0 TPA	2.0 TPA	To be utilized as manure
3.	Process (Dust from Bag filters)	5 TPD	5 TPD	To be reused in the process
4.	Waste oil & waste grease	4.0 KL/Annum	4.0 KL/annum	Shall be used as lubricant within the premises / to authorized Re-processors / Recyclers / to the Cement industries for co-processing.
5.	Lead Acid batteries	60 Nos./Annum	60 Nos./annum	To dealers on buy back system
6.	Boiler ash	180 TPD	180 TPD	To Brick Manufacturers

17. The proponent is permitted to utilize the following (Hazardous and non-hazardous) materials as alternative fuels in addition to above mentioned fuels in the cement kiln duly following CPCB norms / guidelines / SOPs pertaining to co-processing:
18. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.
  - a) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
  - b) Plastic Waste Management Rules, 2016.
  - c) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
  - d) Fly Ash Notification, 2016.
  - e) Batteries (Management & Handling) Rules, 2010.
  - f) E-Waste (Management) Rules, 2016.
  - g) Construction and Demolition waste Management Rules, 2016.
  - h) Solid Waste Management Rules, 2016.

**Other Conditions:**

19. **The proponent shall comply with the following:**
  - **The industry shall obtain municipal waste from Tadipatri Municipality, Ananthapuramu District and other municipalities.**
  - **Bio mass and ash shall be stored in separate sheds to control fugitive emissions.**
  - **The industry shall segregate the municipal waste properly by installing a pre-processing facility for segregation.**
  - **The industry shall not use wood waste as alternative fuel in cement kiln.**
20. 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., on all sources of noise generation.
21. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
22. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.

23. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
24. 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 such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**CHIEF ENVIRONMENTAL ENGINEER**

**To**

**M/s. Sagar Cements (R) Ltd.,  
Gudipadu (V), Yadiki(M),  
Ananthapuramu District.  
[vvprasad@sagarcements.in](mailto:vvprasad@sagarcements.in)  
[srikanthch@sagarcements.in](mailto:srikanthch@sagarcements.in)**



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
**D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,**  
**Chalamalavari Street, Kasturibaipet, Vijayawada – 520010.**

Website :  
www.appcb.ap.nic.in

**AMENDMENT TO THE CFE ORDER**

**Order No. 145 /APPCB/CFE/RO-KNL/HO/2010**

**Dt: 04.06.2019**

**Sub: APPCB - CFE - M/s. Sagar Cements (R) Ltd., Gudipadu (V), Yadiki (M), Anantapuram District - CFE Amendment Order - Issued - Reg.**

- Ref:**
1. CFE order dt. 09.08.2010
  2. CFE Amendment order dt. 22.03.2018
  3. CFE Expansion order dt. 21.02.2019.
  4. EC orders dt. 26.02.2010 & 03.05.2019.
  5. Industry's CFE application received through AP OCMMS on 08.05.2019.
  6. R.O. Report dt. 17.05.2019.

\* \* \*

In the reference 1<sup>st</sup> cited, the Board issued CFE to **M/s. Sagar Cements (R) Ltd., Gudipadu (V), Yadiki(M), Anantapuram District** with certain conditions mentioned therein. Subsequently, vide reference 3<sup>rd</sup> cited, the Board issued CFE for expansion.

The Board vide reference 2<sup>nd</sup> cited issued amendment to CFE order duly permitting the industry to use Pet Coke as alternate fuel in the Cement Kiln.

The industry vide reference 5<sup>th</sup> cited, has applied for CFE to use **additional alternative fuels in the kiln i.e., i) Pharmaceutical industries Waste (Solid/Semi Solid) ii)Carbon Black iii)Spent Carbon iv)Municipal Waste v)Plastic Waste & vi) Bio mass (Rice Husk, Coconut coir, Ground nut Husk etc.)**. The EE, RO: Kurnool vide reference 6<sup>th</sup> cited submitted report in this regard.

The Board after careful examination of the application of the industry and report of the Regional Officer hereby issues amendment to CFE order dt. 21.02.2019 as following:

- a) The industry is permitted to use following additional alternate fuels in the Cement Kiln in addition to Coal (370 TPD) and Pet coke (6666.66 TPM):**
- i) Pharmaceutical industries Waste (Solid/Semi Solid) -0.0050 million TPA**
  - ii) Carbon Black - 0.010 million TPA**
  - iii) Spent Carbon - 0.0050 million TPA**

- iv) **Municipal Waste - 0.0050 million TPA**
  - v) **Plastic Waste - 0.0050 million TPA**
  - vi) **Bio mass (Rice Husk, Coconut coir, Ground nut Husk etc.) - 0.0050 million TPA**
- b) The industry shall Install required air pollution control systems so that the concentration of the pollutants in the emissions shall not exceed the standards prescribed by the MoEF&CC, GoI, New Delhi from time to time.
- c) The industry shall obtain amendment to CFO order of the Board before starting usage of above mentioned additional fuels in the Cement kiln.
- d) All other conditions stipulated in the CFE order issued vide reference 3<sup>rd</sup> cited remain the same.
- e) The industry shall comply with all the conditions stipulated in the CFO & HWA order dt. 24.03.2016.
- f) This order is issued subject to orders issued by any Court of law.

**Bandla  
Siva Sankar  
Prasad**

Digitally signed by Bandla Siva Sankar Prasad  
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**CHAIRMAN**

**To**

**M/s. Sagar Cements (R) Ltd., (Additional fuels),  
Gudipadu (V), Yadiki(M),  
Anantapuram District  
venkatreddyk@sagarcements.in  
prasannach@sagarcements.in**



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
**D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,**  
**Chalamalavari Street, Kasturibaipet, Vijayawada – 520010.**

Website :www.appcb.ap.nic.in

**CONSENT ORDER FOR ESTABLISHMENT**

**Order No. 145 /APPCB/CFE/RO-KNL/HO/2010**

**Dt: 21.02.2019**

Sub: APPCB – CFE - **M/s. Sagar Cements (R) Ltd., Gudipadu (V), Yadiki (M), Anantapuram District - Consent for Establishment (CFE)** for expansion of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

- Ref:
1. EC Order dt. 26.02.2010 issued by SEIAA, AP.
  2. CFE Orders dt. 09.08.2010 & 22.03.2018.
  3. Industry's CFE application received through AP Single Desk on 24.01.2019.
  4. R.O's inspection report dt. 01.02.2019.
  5. CFE Committee meeting held on 08.02.2019.
  6. Industry's Ir.dt.13.02.2019.

1. In the reference 3<sup>rd</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **expansion** of Cement Manufacturing Unit as following, with an additional investment of Rs. 20 Crores.

Sl. No	Name of the Products and By-products	Capacity as per CFE order dt: 09.08.2010	Proposed quantity for expansion	Quantity after expansion
1.	Clinker	0.66 Million TPA	0.09 Million TPA	0.75 Million TPA
2.	*Cement	0.95 Million TPA	----	0.95 Million TPA
3.	Power (captive consumption )	25 MW	---	25 MW

\*Cement of 0.95 Million TPA is produced using clinker of 0.66 Million TPA & additives.

2. As per the application, the above activity is to be located within existing premises at Gudipadu (V), Yadiki(M), Anantapuram District.
3. The above site was inspected by the Environmental Engineer & Asst. Environmental Engineer, Regional Office, Kurnool, A.P Pollution Control Board on 28.01.2019 and found that the site is surrounded by the following:

**North** : Vacant lands  
**South** : Vacant lands  
**East** : Mine lease area  
**West** : Vacant lands



4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT FOR EXPANSION** to the project under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**
5. This Consent Order now issued is subject to the conditions mentioned in Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. **This order is valid for period of 7 years from the date of issue.**

Encl: Annexure.

**Bandla Siva  
Sankar  
Prasad**

Digitally signed by Bandla Siva  
Sankar Prasad  
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**CHAIRMAN**

**To**

**M/s. Sagar Cements (R) Ltd., (expn)  
Gudipadu (V), Yadiki (M),  
Anantapuram District.  
venkatreddyk@sagarcements.in,  
prasannach@sagarcements.in**

**Copy to:** 1. The JCEE, Z.O: Kurnool for information and necessary action.  
2. The E.E., R.O: Kurnool for information and necessary action.

### **ANNEXURE**

1. The proponent shall obtain Consents for operation from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
2. The applicant shall provide separate energy meters for Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.

**Water:**

4. The source of water is Mine pit / Bore-well. The maximum permitted water consumption after expansion is as following:

S.No.	Purpose	Quantity (KLD)
1.	Cooling (Cement Plant)	500.0
2.	Filter backwash	15.0
3.	Boiler Feed	30.0
4.	Cooling (Power plant)	2430.0
5.	Service water	10.0
6.	Softner / DM Plant	15.0
7.	Domestic(Plant & colony)	200.0
	<b>Total</b>	<b>3200.0</b>

5. The maximum waste water generation after expansion shall not exceed the following:

S. No.	Source	Consented as per CFE order dt.09.08.2010 Quantity (KLD)	After expansion (KLD)
1.	Filter backwash	15.0	15.0
2.	Boiler blow down	24.0	24.0
3.	Cooling	490.0	490.0
4.	Service water	6.0	6.0
5.	Softner / DM Plant	15.0	15.0
6.	Domestic (Plant & colony)	160.0	170.0
	<b>Total</b>	<b>710.0</b>	<b>720.0</b>

**Treatment & Disposal:**

Effluent source	Treatment	Mode of final disposal
D.M. Plant	Neutralization	Shall be collected in CMB and recycle into the process for cooling purpose.
Cooling tower, Boiler & filter back wash	Settling tank	
Service water	Oil & Grease trap	
Domestic (Plant & Colony)	STP (200 KLD capacity)	Recycled into process / Greenbelt development

6. Under no circumstances the waste water shall be discharged outside the factory premises.
7. Separate flow meters with totalisers to necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
- Dust Suppression
  - Domestic purpose.
  - Green Belt

**Air:**

8. The air emissions from the pollution sources shall comply with the following after expansion:

Sl. No.	Details of Stack	Stack 1	Stack 2	Stack 3	Stack 4	Stack 5
a)	Attached to	Boiler	Raw mill / Kiln	Cooler	Cement mill	Coal mill
b)	Capacity	110 TPH	2000 TPD	2500 TPD	150 TPH	23 TPH
c)	Fuel from	Coal - 430 TPD	Coal – 370 TPD or petcoke – 6666.66 TPM	---	---	---
d)	Stack height	70 m	90 m	40 m	40 m	35 m
e)	Control Equipment	ESP	Reverse Air Bag House	ESP	Bag filters	Bag filters

**9. The industry shall not store raw materials in open area.**

10. The Bag filters shall be designed such that 25% of additional capacity is available as spare to meet the emergency requirements.
11. The industry shall provide concrete roads in the plant to avoid the fugitive dust emissions. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads.
12. The proponent shall provide online stack monitoring facility for all the major stacks and the data generated shall be networked with APPCB and CPCB for web display.
13. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MOE&F, GOI vide notification No. GSR 826(E), dated. 16.11.2009, during construction and regular operational phase of the project.
14. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
15. The proponent 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 the air pollution control equipments fails.
16. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB (A) during day time and 70 dB (A) during night time.

**Solid / Hazardous Waste:**

17. The proponent shall comply with the following after expansion:

S.No	Name of the waste	Quantity	Method of disposal
1.	Hi-chrome grinding media from process	2.50 TPA	Shall be recycled / replaced by the suppliers
2.	Process (Dust from Bag filters)	5 TPD	Shall be reused in the process.
3.	STP Sludge	2.0 TPA	Shall be utilized as manure.
4.	Waste oil & waste grease	4 KI/Annum	Shall be used as lubricant within the premises / to authorized Re-processors / Recyclers / to the Cement industries for co-processing.
5.	Lead Acid batteries	60 Nos/Annum	To dealers on buy back system
6.	Boiler Ash	180 TPD	To Brick Manufacturers.

18. The following rules and regulations notified by the MoEF&CC, Gol shall be implemented.

- a) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
- b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- c) Fly Ash Notification, 2016.
- d) Batteries (Management & Handling) Rules, 2010.
- d) E-Waste (Management) Rules, 2016.
- f) Construction and Demolition waste Management Rules, 2016.

**Other Conditions:**

19. **The industry shall start construction work only after obtaining E.C for expansion and a copy of the same shall be submitted at concerned Regional Office.**

20. **The industry shall comply with the following by 31.07.2019, as committed vide Ir.dt.13.02.2019:**

- a) The industry shall provide vehicle mounted mechanical sweeper for regular cleaning of dust on the roads, plant floors and other dust areas in the premises.
- b) The industry shall provide fixed automatic water sprinkler systems all along the roads to control the fugitive dust emissions during the vehicular movement.
- c) The industry shall prepare feasibility study for the co-processing of Hazardous waste in the Kiln.

21. 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., on all sources of noise generation.
22. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
23. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
24. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
25. 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 such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

Bandla Siva  
Sankar  
Prasad

Digitally signed by Bandla Siva  
Sankar Prasad  
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**CHAIRMAN**

**To**

**M/s. Sagar Cements (R) Ltd., (expn)  
Gudipadu (V), Yadiki (M),  
Anantapuram District.  
venkatreddyk@sagarcements.in,  
prasannach@sagarcements.in**



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
**D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,**  
**Chalamalavari Street, Kasturibaipet, Vijayawada – 520010.**

Website :www.appcb.ap.nic.in

**Order No. 145 /APPCB/CFE/RO-KNL/HO/2010**

**Dt:22.03.2018**

**Sub: APPCB - CFE - M/s. Sagar Cements (R) Ltd., (formerly M/s. BMM Cements Limited) Gudipadu (V), Yadiki (M), Anantapuram District - Usage of Pet Coke as an alternative fuel in the Kiln - CFE amendment order issued - Reg.**

- Ref:**
1. CFE order dt.09.08.2010.
  2. CFO & HWA orders dt. 21.05.2015, 24.03.2016, 21.04.2016 and 30.10.2017.
  3. CFE application received through A.P. OCMMS Portal on 20.02.2018.
  4. R.O. Report dt. 08.03.2018.
  5. EFS&T Department, GoAP, G.O.Ms.No. 71, dt. 01.11.2017.
  6. CFE Committee meeting held on 15.03.2018.

\* \* \*

In the reference 1st cited, the Board issued CFE to **M/s. BMM Cements Limited, Gudipadu (V), Yadiki (M), Anantapuram District** with certain conditions mentioned therein.

In the reference 2<sup>nd</sup> cited the Board issued CFO orders and amended the name of the industry as M/s. Sagar Cements (R) Ltd.,

In the reference 3<sup>rd</sup> cited the industry has applied for CFE to use Pet Coke as alternate fuel in the Cement kiln.

The EE, RO: Kurnool submitted report in this regard vide reference 4<sup>th</sup> cited. The issue was placed before the CFE Committee in its meeting held on 15.03.2018. The Committee noted that the EFS & T Department, Govt. of Andhra Pradesh vide G.O.Ms.No. 71, dt. 01.11.2017 issued G.O. declaring the Pet Coke as approved fuel.

The Committee after detailed discussions recommended to issue amendment to the CFE order for usage of Pet Coke as alternate fuel in the Cement kiln.

In view of the above, the Board after careful examination of the application of the industry, report of the Regional Officer and recommendation of the CFE Committee, hereby issues **amendment to CFE** to the unit under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under as following:

- a) The industry is permitted to use Pet Coke of quantity 6,666.66 TPM as alternate fuel in the Cement Kiln.
- b) The industry is permitted to utilize Pet coke in Cement kiln only. This is subject to the orders of any Court of law.

- c) The industry shall install required air pollution control systems so that the concentration of the pollutants in the emissions shall not exceed the standards prescribed by the MoEF&CC, GoI, New Delhi from time to time.
- d) The industry shall obtain CFO of the Board.
- e) All other conditions stipulated in the CFE order issued vide reference 1<sup>st</sup> cited remain the same.

**Bandla Siva  
Sankar  
Prasad**

Digitally signed by Bandla Siva Sankar Prasad  
DN: c=IN, o=APPCB, ou=EF5 and T Head Office, cn=Bandla Siva Sankar Prasad, postalCode=520010, 2.5.4.20=c040c01bf7f6f398976702e0c db9b479454f18c98b21c03bc47f7349 d6555b35, st=Andhra Pradesh  
Date: 2018.03.22 17:06:22 +05'30'

**MEMBER SECRETARY**

**To**

**M/s. Sagar Cements (R) Ltd.,  
(formerly M/s. BMM Cements Limited),  
Gudipadu (V), Yadiki(M),  
Anantapuram District.  
venkatreddyk@sagarcements.in  
satishm@sagarcements.in**

**Copy to**

- a) The JCEE, ZO: Kurnool for information.  
b) The EE, RO: Kurnool for information and necessary action.





**REGD.POST WITH ACK.DUE**

**CONSENT ORDER FOR ESTABLISHMENT**

**Order No.145/PCB/CFE/RO-KN/HO/2010**

1192

**Dt.09.08.2010**

Sub: PCB - CFE - **M/s. BMM Cements Limited, Gudipadu (V), Yadiki(M), Anantapur District** - Consent for Establishment of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

- Ref: 1) Public hearing conducted on 19.8.2009 at Gudipadu(V), Yadiki(M), Anantapur District  
2) Environmental Clearance dt. 26.2.2010 issued by SEIAA, A.P.  
3) Industry's application received through SWCC on 6.4.2010 & clarification received on 7.5.2010  
4) R.O's inspection report dt. 12.4.2010  
5) CFE Committee meeting held on 10.6.2010.

1. In the reference 3<sup>rd</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to setup cement plant and coal based captive power plant to produce the following products with installed capacities as mentioned below, with a project cost of Rs. 300 Crores.

Sl. No.	Products	Capacity
1	Clinker	0.66 Million TPA
2	Cement *	0.95 Million TPA
3	Power (Captive Consumption)	25 MW

\*Cement of 0.95 MTPA is produced using clinker of 0.66 MTPA & additives

2. As per the application, the above activity is to be located at Sy.No. 754, 608, 767, etc, Gudipadu(V), Yadiki(M), Anantapur District in an area of 80.0 Hectares (198.4 acres).
3. The above site was inspected by the Asst. Environmental Engineer-I, Regional office, Kurnool, A.P Pollution Control Board on 8.4.2010 and found that the site is surrounded by

**North** : Vacant land  
**South** : Vacant land  
**East** : Mine Area  
**West** : Vacant land

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT** to your unit Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**



5. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'  
Schedule 'B'

Sd/-  
MEMBER SECRETARY

To  
✓ M/s BMM Cements Limited,  
8-2-686/D/8/10/2, Megacity, 584,  
Road No.12, Banjara Hills,  
Hyderabad - 500 034.

/// T.C.F.B.O///

*B. S. Rao*

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*[Signature]*  
JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)



### SCHEDULE - A

1. Progress on implementation of the project shall be reported to the concerned Regional Office, A.P. Pollution Control Board once in six months.
2. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
3. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
4. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.
5. The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.
6. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
7. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall constructed around storage of chemicals.
8. Rain Water Harvesting (RWH) structure (s) shall be established on the plant site. The proponent shall ensure that effluent shall not enter the Rain Water harvesting structure.
9. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.
10. **This order is valid for period of 5 years from the date of issue.**

### SCHEDULE - B

#### Water:

1. The source of water is borewell and the maximum permitted water consumption is 3200 KLD & fresh water requirement is 2490 KLD.

S.No.	Source	Quantity
1.	Cooling (Cement Plant)	500.0 KLD
2.	Filter backwash	15.0 KLD
3.	Boiler Feed	30.0 KLD
4.	Cooling (Power plant)	2430.0 KLD
5.	Service water	10.0 KLD
6.	Softner / DM Plant	15.0 KLD
7.	Domestic(Plant & colony)	200.0 KLD
	<b>Total</b>	<b>3200.0 KLD</b>

470 KLD



2. The maximum Waste Water Generation (KLD) shall not exceed the following:

S.No.	Source	Quantity
1.	Filter backwash	15.0 KLD
2.	Boiler blow down	24.0 KLD
3.	Cooling	490.0 KLD
4.	Service water	6.0 KLD
5.	Softner / DM Plant	15.0 KLD
6.	Domestic(Plant & colony)	160.0 KLD
	<b>Total</b>	<b>710.0 KLD</b>

**Treatment & Disposal:**

Effluent source	Treatment	Mode of final disposal
D.M. Plant	Neutralization	Shall be collected in CMB and recycle into the process for cooling purpose.
Cooling tower, Boiler & filter back wash	Settling tank	
Service water	Oil & Grease trap	
Domestic (Plant & Colony)	STP	Recycled into process / Greenbelt development

3. Air cooled condenser shall be provided to reduce fresh water consumption and shall implement water conservation methods where ever possible.
4. All the treated waste water shall be recycled and reused in the process and/or for dust suppression, green belt development and under no circumstances shall be discharged out side the factory premises. The zero discharge shall be implemented.
5. The Effluent Treatment Plant (ETP) shall be constructed and commissioned along with the commissioning of the activity. All the units of the ETP shall be impervious to prevent ground water pollution.
6. The effluents shall be treated to the on land for irrigation standards, stipulated under Environment (Protection) Rules, 1986, notified and published by Ministry of Environment and Forests, Government of India as specified in Schedule VI vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof, and additional standards / conditions stipulated by APPCB.
7. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
  - a) Industrial cooling, boiler feed.
  - b) Domestic purposes.
  - c) Processing, whereby water gets polluted and pollutants are easily bio-degradable.
  - d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.



**Air:**

8. The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution.

Sl. No.	Details of Stack	Stack 1	Stack 2	Stack 3	Stack 4	Stack 5
a)	Attached to:	Boiler	Raw mill / Kiln	Cooler	Cement mill	Coal mill
b)	Capacity	110 TPH	2000 TPD	2500 TPD	150 TPH	23 TPH
c)	Fuel from :	Coal - 430 TPD	Coal - 370 TPD	---	---	---
d)	Stack height :	70 m	90 m	30 m	40 m	40 m
e)	Control Equipment.	ESP	Reverse Air Bag House	ESP	Bag filters	Bag filters

9. The industry shall install adequate dust collection and extraction system to control the fugitive dust emissions at various transfer points, raw material handling, bagging, packing, parking areas etc., . Suitable air pollution control equipment such as Bag filters shall be provided at Raw material hoppers, Raw grinding ball mill, Raw meal storage silos.
10. The industry shall construct raw material storage sheds. The storage of raw material shall be in closed roof sheds / silos.
11. The ESP and Bag filters proposed shall be designed such that 25% of additional capacity is available as spare to meet the emergency requirements.
12. The industry shall cover all the raw material transfer point conveyer belts with GI sheets. Water spraying system and dust suppression system shall be provided all around the coal, iron ore, lime stone stock pile sheds and around the conveyor system.
13. The industry shall provide concrete roads in the plant to avoid the fugitive dust emissions. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads.
14. The industry shall install online monitoring equipments for the major stacks viz., Raw mill / Kiln, Clinker cooler, Boiler and shall provide facility for on line display in the PLC control room.
15. Fixed ambient air stations shall be provided in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx in wind word direction and in the nearest village / habitation in which peak ground level concentration is level is expected in consultation with concerned Regional Officer of APPCB. Monthly reports of the same shall be submitted to the Regional Officer.
16. The particulate emission from the cement plant shall not exceed 50 mg/Nm<sup>3</sup>. The total dust from all the sections shall not exceed 250 mg/Nm<sup>3</sup> as prescribed by CPCB.



17. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
18. The proponent 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 incase the air pollution control equipments fails.
19. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.

**Solid & Hazardous Waste:**

20. The proponent shall comply with the following:

Sl. No	Source of generation	Quantity	Method of disposal
1	Process (Hi-chrome grinding media)	2.5 TPA	Shall be Recycled / replaced by the suppliers
2	ETP sludge	2 TPA	Shall be Used as manure for greenbelt development after drying
3	Ash	180 TPD	Shall be Reused in the process for cement manufacturing
4	Spent Oil	250 LPA	Shall be Used for lubrications of scrapper chains within the plant and balance shall be used as fuel in kiln.

21. Provisions shall be made to the cement kiln to use spent carbon, spent solvent, etc., to use as fuel in the kiln. Spent Acid shall be used for production of Gypsum. The industry shall make necessary arrangements in this regard.
22. The following rules and regulations notified by the MOE&F, GOI shall be implemented.
  - a) Hazardous waste (Management, Handling and Transboundary Movement), Rules, 2008.
  - b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

**Other Conditions:**

23. Green belt of width 15 m shall be developed along the boundary of the plant and colony. Greenbelt shall be developed in an area of minimum 33% of total area of the industry as per CPCB guidelines i.e. in an area of 26.67 ha. Green belt development shall be started along with the construction activity.



24. The over all 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., on all sources of noise generation.
25. Occupational health surveillance programs shall be done on regular basis and record to be maintained.
26. The recommendations / commitments made during the Public Hearing held on 19.8.2009 at Gudipadu(V), Yadiki(M), Anantapur District shall explicitly be followed from pollution control point of view.
27. The proponent shall obtain necessary clearance from concerned Government Department to draw water.
28. The industry shall comply with all the conditions stipulated in the Environmental Clearance issued vide order dt. 26.2.2010 issued by SEIAA, A.P.

Sd/-  
MEMBER SECRETARY

To  
M/s BMM Cements Limited,  
8-2-686/D/8/10/2, Megacity, 584,  
Road No.12, Banjara Hills,  
Hyderabad – 500 034.

/// T.C.F.B.O///



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 JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)