



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.

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

In the reference 3rd 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 4th 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 1st cited remain the same.

**Bandla Siva
Sankar
Prasad**

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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.



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 3rd 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
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Prasad**

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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
	Total	3200.0

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
	Total	710.0	720.0

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.
- a) Dust Suppression
 - b) Domestic purpose.
 - c) 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.

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Sankar
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CHAIRMAN

To

**M/s. Sagar Cements (R) Ltd., (expn)
Gudipadu (V), Yadiki (M),
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venkatreddyk@sagarcements.in,
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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 1st 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 3rd cited, the Board issued CFE for expansion.

The Board vide reference 2nd 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 5th 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 6th 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 3rd 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
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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**