



**REGD.POST WITH ACK.DUE**

**CONSENT ORDER FOR ESTABLISHMENT**

**Order No. 226/PCB/CFE/RO-VJA/HO/2014**

**Dt. 03.11.2014**

Sub: PCB - CFE - M/s. The KCP Ltd., Sy. No. 69/2 (P), Muktyala (V), Jaggaiahpet (M), Krishna District. - Consent for Establishment of the Board for Expansion 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. CFO & HW order dt. 24.08.2012
  2. E.C.Order dt.26.08.2014 issued by MoE&F, Gol, New Delhi.
  3. Industry's application received through Commissioner of Industries on 16.06.2014.
  4. R.O's inspection report dt. 30.06.2014.
  5. CFE Committee meeting held on 08.10.2014.

1. In the reference 3<sup>rd</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for expansion to produce the following products with an additional investment of Rs. 460.00 crores.

Sl. No.	Products	CFE obtained but not yet commissioned	Consented capacity	Proposed capacity	Total capacity
1.	Clinker		1.32 MTPA	1.74 MTPA	3.06 MTPA
2.	Cement (OPC & PPC)		1.52 MTPA	2.00 MTPA	3.52 MTPA*
3.	Power	12 MW	--	2 x 18 MW	2 x 18 MW

(MTPA: Million tones per annum. \*The cement production is inclusive of 3.06 MTPA of Clinker production)

2. As per the application, the above expansion activity is to be located within the existing plant premises located at Sy. No. 69/2 (P), Muktyala (V), Jaggaiahpet (M), Krishna District in an area of 47.65 Ha.
3. The above site was inspected by the Environmental Engineer and Assistant Environmental Engineer, Regional Office, Vijayawada, A.P Pollution Control Board on 18.06.2014 and found that the site is surrounded by

**North** : Lime stone mine & Approach road to the Industry  
**South** : Lime stone mines  
**East** : Own Lime stone mines  
**West** : Own Lime stone mines

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT FOR EXPANSION** 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. The KCP Ltd., (Expansion)  
Sy. No. 69/2 (P), Muktyala (V),  
Jaggaihpeta (M), Krishna District.

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

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

JOINT CHIEF ENVIRONMENTAL ENGINEER (UH-I)

### 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 be 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 Bore wells, Krishna River and Mine pit. The maximum permitted water consumption after expansion is 2770 KLD.

Purpose	Existing	Proposed	Total
	KLD	KLD	KLD
a) Process	324	1221	1285 260 (recycled)
b) Cooling	150	650	800
c) Boiler		100	100
d) DM plant & Service water		55	55
e) Domestic (Plant, Township and canteen)	120	150	270
<b>Total</b>	<b>594</b>	<b>2176</b>	<b>2770</b>

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

Source	Existing	Proposed	Total
	KLD	KLD	KLD
Process	-	45	45
C.T. Blow down	-	100	100

Boiler Blow down	-	70	70
DM Plant + Service	-	45	45
Domestic (Plant, Township and canteen)	96	120	216
<b>Total</b>	<b>96</b>	<b>380</b>	<b>476</b>

**Treatment & Disposal:**

Effluent source	Treatment	Mode of final disposal
Process waste water, C.T. Blow down, Boiler Blow down, DM Plant & Service water	Neutralization	Recycled/ reused in the plant premises for various purposes.
Domestic	STP	Re-used for on land for plantation.

3. Under no circumstances shall be discharged out side the factory premises. The zero discharge shall be implemented.
4. All the units of the STP shall be impervious to prevent ground water pollution.
5. 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.
6. Separate magnetic 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) 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:**

7. The proponent shall comply with the following for controlling air pollution after expansion:

S. No.	Source of Pollution	Control equipment	Stack height	
1.	Lime Stone Crusher	Bag filter	26 m.	2 No.
2	Raw Mill/Kiln (Pre heater)	Bag filter	135 m	2 No.
3	Coal Mill	Bag filter	41 m	2 No.
4	Cement mill	Bag filter	48 m.	2 No.
5	Cooler	ESP	54 m.	2 No.
<b>Other Ventilation Systems</b>				
6	Lime Stone Weigh feeder	Bag filter	30 m	2 No.
7	Raw material Storage Silos	Bag filter	30 m	2 No.
8	Raw mill blending silo	Bag filter	Top at 72 m. from GL with stack height of 5 m	2 No.
9	Coal hoppers	Bag filter	30 m	2 No.
10	Clinker stock pile	Bag filter	40 m	2 No.
11	Clinker transport to cement mill	Bag filter	30 m	2 No.
12	Clinker Transport discharge end	Bag filter	30 m	2 No.

13	Clinker hopper at cement mill section	Bag filter	30 m	2 No.
14	Cement Silo -I	Bag filter	50 m	2 No.
15	Cement Silo -II	Bag filter	50 m	2 No.
16	Packing machine – I	Bag filter	30 m	2 No.
17	Packing machine – II	Bag filter	30 m	2 No.
18	Power Plant	ESP	95 m	1no.

8. The industry shall construct raw material storage sheds. The storage of raw material shall be under sheds / silos.
9. The ESP and Bag filters shall be designed such that 25% of additional capacity is available as spare to meet the emergency requirements.
10. The particulate emission from the Raw mill, Kiln & cement grinding mill shall not exceed 50 mg/Nm<sup>3</sup>.
11. The industry shall cover all the raw material transfer point conveyer belts with 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 conveyer system.
  - a) The Industry shall provide clinker stock piles to minimize the fugitive emissions.
  - b) The Industry shall provide unit dust bag filters at all transfer points.
  - c) The Industry shall avoid open storage of clinker to minimize the fugitive emissions.
  - d) The Industry shall install separate energy meter to air pollution control equipment i.e., ESPs, Bag Houses & Bag Filter etc. and individual hour meter for each field of ESPs and maintain records pertaining to operation and maintenance of the control equipment.
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 industry shall install Continuous online monitoring equipments for all the major stacks and shall provide facility for on line display in the PLC control room.
14. Continuous ambient air quality monitoring stations shall be provided in the core zone as well as in the buffer zone for monitoring PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> in the down windward direction and in the nearest village / habitation in which peak ground level concentration is expected in consultation with concerned Regional Officer of APPCB. Monthly reports of the same shall be submitted to the Regional Officer.
15. 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.
16. The continuous online stack monitoring & ambient air quality monitoring data shall be networked with the APPCB, H.O and CPCB for web display.
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 Waste:**

20. The proponent shall comply with the following:

Sl. No	Type of Waste	Quantity	Method of Disposal
1.	Waste oil	0.50 KLPA	to authorized recyclers or re-processors/ co-processing in the cement kiln/ used as lubricant in the plant.

21. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be 100% recycled and reused in the process and used for cement manufacturing. Solid waste from sewage treatment plant (STP) shall be used as manure. No solid waste shall be disposed off from the cement plant. Overburden from mines shall be used for afforestation purposes in the plant and mine area. Spent oil, grease and grinding media shall be disposed to licensed vendors.
22. An effort shall be made to use of high calorific hazardous waste viz., spent carbon, spent solvent, Dolochar, spent earth from oil reclamation units, waste from welding shops, etc., in the cement kiln and necessary provision shall be made accordingly. Spent Acid shall be used for production of Gypsum. The company shall keep the record of the waste utilized and shall submit the details to the concerned Regional Office, APPCB along with flue gas monitoring reports as & when Haz. Waste is used along with regular fuel.
23. The industry shall carry out the analysis of the trace metals like mercury, chromium, lead, arsenic, uranium, etc in the coal and the analysis report shall be regularly submitted to the concerned Regional Office., APPCB.
24. The following rules and regulations notified by the MoE&F, GoI shall be implemented.
- Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
  - Hazardous waste (Management, Handling and Transboundary Movement) Rules, 2008.
  - Fly ash notification S.O.2804 (E), dt. 3.11.2009.
  - Batteries (Management & Handling) Rules, 2010.
  - E-Waste (Management & Handling) Rules, 2011.

**Other Conditions:**

25. Existing Green belt shall not be disturbed for the proposed expansion activity. The green belt shall be developed in an area of 33% of total area. Green belt of width 20m shall be developed in the southern side of the plant as stipulated in the CFO order.
26. 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.
27. 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.
28. The proponent shall comply with all the directions issued by the Board from time to time.
29. 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.

30. The Board reserves its right to modify above conditions or stipulate new / additional conditions and to take action including revoke of this order in the interest of environment protection.
31. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.
32. 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.

Sd/-  
MEMBER SECRETARY

To  
M/s. The KCP Ltd., (Expansion)  
Sy. No. 69/2 (P), Muktyala (V),  
Jaggiahpet (M), Krishna District.

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