

**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 ORDER FOR ESTABLISHMENT****Order No.145/APPCB/CFE/RO-ATP/HO/2014****17/11/2022**

Sub:APPCB – CFE – **M/s. Sagar Cements (R) Limited (Gudipadu Limestone Mine), Gudipadu (V), Yadiki (M), Ananthapuramu 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. EC Order dt.16.08.2022 issued by MoEF & CC, Gol, New Delhi.  
2. CFE (exp) application received through APOCMMS on 21.10.2022.  
3. R.O's inspection report dt.02.11.2022.  
4. CFE Committee meeting held on 09.11.2022.

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1. **M/s. Sagar Cements (R) Limited (Gudipadu Limestone Mine)**, vide reference 2<sup>nd</sup> cited, submitted an application to the Board seeking Consent for Establishment (CFE) for Expansion to produce the following with installed capacities as mentioned below, with an additional investment of Rs.10.0 Crores.

S. No.	Name of the Activity	Qty as per EC Order dt.12.12.2014.	Qty as per CFE order dt.13.02.2015	Qty as per EC Expansion Order dt.16.08.2022	Total Qty after CFE expansion
1.	Mining of Lime Stone (mine lease area of 454.59 Ha)	1.0 Million TPA	1.0 Million TPA	3.7 Million TPA (an additional production capacity for Expansion)	4.7 Million TPA

2. As per the application, the above activity is to be carried out in the existing mine lease area at Gudipadu (V), Yadiki (M), Ananthapuramu District. The area is falling with 77° 57' 55.91" E to 78° 00' 16.56" E and 15° 04' 51.55" N to 15° 07' 28.07" N in a total area of 454.59Ha

3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional Office, Ananthapuramu, A.P Pollution Control Board on 28.10.2022 and found that the site is surrounded by

**North** : Hillock

**South** : Hillock followed by Dry Agricultural Lands

**East** : Hillock

**West** : Gudipadu to Thumalapentta village road and Dry Agricultural lands.

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT for Limestone Mining activity** 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 activity 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.
7. **This order is valid for period of 7 years from the date of issue.**

Encl: Schedule 'A'  
Schedule 'B'

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

**To**

**M/s. Sagar Cements (R) Limited (exp)  
(Gudipadu Limestone Mine),  
Gudipadu (V), Yadiki (M),  
Ananthapuramu District.  
E-mail: sureshreddys@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.

**SCHEDULE - A**

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 proponent shall ensure that separate energy meters are connected to Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.

**SCHEDULE - B****Water:**

1. The source of water is Borewell / rain water collected in the mine pit and the maximum permitted water consumption is as following :

S. No.	Purpose	Qty as per CFE order dt.13.02.2015	Proposed qty for expansion	Total qty after expansion
1.	Process & Washings	1.0 KLD	1.0 KLD	2.0 KLD
2.	Dust Suppression	25.0 KLD	29.0 KLD	54.0 KLD
3.	Gardening /Irrigation	15.0 KLD	25.0 KLD	40.0 KLD
4.	Domestic	4.0 KLD	--	4.0 KLD
	<b>Total:</b>	<b>45.0 KLD</b>	<b>55.0 KLD</b>	<b>100.0 KLD</b>

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

S. No.	Source	Qty as per CFE order dt.13.02.2015	Proposed qty for expansion	Total qty after expansion
1)	Washings (Vehicle)	1.0 KLD	1.0 KLD	2.0 KLD
2)	Domestic	3.2 KLD	--	3.2 KLD
	<b>Total</b>	<b>4.2 KLD</b>	<b>1.0 KLD</b>	<b>5.2 KLD</b>

**Treatment & Disposal:**

Source of effluent	Capacity of Treatment units	Mode of final disposal
Vehicle washings	The industry has provided settling tank of size 4m x 3m x 1.5m for the vehicle washing effluents.	After settling, the wastewater shall be utilized for onland for gardening within the premises.
Domestic	--	Septic tank followed by soak pit.

3. The industry shall ensure that natural water course of stream existing at the edge of the mine lease area towards western side shall not be obstructed due to any mining

operations. Adequate buffer zone shall be maintained on either side of the stream to protect it.

4. Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, greenbelt development, etc. The drains shall be regularly desilted, particularly after monsoon and maintained properly.
5. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity shall be provided. Sump capacity with adequate retention period to allow proper settling of silt material should also be provided. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.
6. The proponent has to provide a trench for storm water draining from the mine lease area to aid in preventing the sedimentation of silt and avoid siltation at the discharge end of check dams.
7. The project proponent shall take appropriate mitigative measures to prevent pollution of nearby River and other surface water body.
8. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.

- a) Spraying in mine pits.
- b) Domestic purposes.

#### **Air:**

9. 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.

S. No.	Details of stack	Stack 1 (Existing)	Stack 2 (New)
1.	Attached to	Limestone crusher	Limestone crusher
2.	Capacity	350 Tons/hr	1200 Tons/hr
4.	Stack height Above the ground (m)	23m	20m
5.	Details of Air Pollution Control Equipment	Pulsejet bag house with 153 No. of Bags	Pulsejet bag house with 462 No. of Bags

10. 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.
11. The proponent shall comply with the following for controlling fugitive emissions.
  - Water spraying shall be done on the blasted muck pile before loading by excavator to suppress the dust.
  - To control dust from drilling operations, drilling with dust collectors/wet drilling shall be practiced. Also drill speeds shall be regulated as per manufacturer's

guidelines.

- Regular Water spraying shall be done on haul roads and during unloading at crusher hopper to suppress the dust effectively.
- Overloading of transport equipment shall be prevented in order to stop spillage.
- Water sprinklers shall be provided at the Limestone crusher (1200 Tons/hr) and also at the belt conveyor.
- Closed conveyor system from the Limestone crusher (1200 Tons/hr) to the Cement plant for a total length of 3.2km shall be provided.
- 3nos. bag filters (48 no. of bags) shall be provided at transfer points from Limestone crusher to the Limestone stock pile.

12. The proponent shall comply with the following for controlling noise emissions.

- Machinery shall be properly maintained to prevent undesirable noise. Attention shall be paid towards rigorous maintenance of the silencers of diesel engines.
- Surface drilling and blasting operations shall not be carried out at night.
- The drilling shall be done with sharp drill bits to reduce generation of noise during drilling.
- Controlled blasting with optimum charge per hole shall be practiced to reduce generation of noise.
- Hydraulic rock breaker shall be used in lieu of secondary blasting.
- Drill machine operators and dumper drivers shall be equipped with earplugs and earmuffs. The duty hours of operators working near the machinery shall be regulated to keep their noise exposure levels within limits.
- Periodical monitoring of noise level of mining machines and at some locations in the mining site shall be done with the help of noise level meter.

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. Ambient air quality monitoring stations shall be provided in core and buffer zone in down windward direction in consultation with concerned Regional Officer of APPCB for monitoring of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>. The consolidated report of the same shall be submitted.

15. Sequential blasting and use of non-electric delay detonators shall be adopted to reduce ground vibrations.

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. The waste oil shall be used for lubrication in the earthmoving equipment.

**Solid Waste:**

17. The proponent shall comply with the following:

S. No.	Name of the waste	Qty as per CFO Order dt.16.07.2021	Qty after CFE Expansion (as per industry Ir.dt.09.11.2022 )	Disposal Option
1.	Top soil	8.54 million m <sup>3</sup> during the life of the mine (or) 52,072 m <sup>3</sup> /Annum	*3.23 Million m <sup>3</sup> during the life of the mine	Shall be dumped temporarily towards south - west side of the working mine pit. The industry is utilizing the top soil for afforestation within the mine lease area.

18. Top Soil, if any, shall be stacked with adequate measures with proper slope at earmarked site (s) only and shall be used for reclamation / plantation and rehabilitation of mined out areas.

19. The following rules and regulations notified by the MoE&F, GoI 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) Batteries (Management & Handling) Rules, 2010.
- d) E-Waste (Management) Rules, 2016.
- e) Construction and Demolition waste Management Rules, 2016.

**Other Conditions:**

20. **The industry shall comply with the following as stipulated in the EC order dt.17.08.2022:**

- The expansion of Limestone production from 1.0 MTPA to 4.70 MTPA will be operational only after the commissioning of new crusher of 1200 TPH along with the Over Land Belt Conveyor (OLBC). Till then, the capacity of the mine will remain upto 1.0 MTPA. New crusher and conveyor will be tested for 1.0 MTPA first and then the mine shall commission for 4.70 MTPA. The commission of new crusher of 1200 TPH capacity along with the conveyor shall be intimated to the to the Ministry's Regional office and to the Board. **Accordingly, SPCB shall not grant Consent to Operate (CTO) for the expansion capacity of 4.70 MTPA production.**
- PP shall undertake dense tree plantation of native fruit bearing species

all along the safety zone (already left of 50m) on either side of nallah within three years and certify this with DFO.

- The air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system etc., shall be installed at Crushers, and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.
- No transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a "bypass" road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200m) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in construction with nodal State Govt. Department.

21. The proponent shall develop green belt of width 7.5 m all along the boundary of the mine lease area on OB dumps, along the roads etc., by planting the native species in consultation with the local DFO.
22. The proponent shall obtain Consent For Operation from the APPCB before the commencement of mining activity. This shall be strictly adhered to without fail.
23. The proponent shall explore the possibility to convert mined area into a reservoir by plugging the leakages.
24. The proponent shall carryout studies on ground vibrations due to blasting activities. Based on the reports of every blast, the blasting parameters shall be modified if necessary with approval of concerned department.
25. 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.
26. The proponent shall comply with all the directions issued by the Board from time to time.
27. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attracts action under the provisions of relevant pollution control Acts.
28. 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.

29. 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 (exp)  
(Gudipadu Limestone Mine),  
Gudipadu (V), Yadiki (M),  
Ananthapuramu District.**



REGD.POST WITH ACK.DUECONSENT ORDER FOR ESTABLISHMENTOrder No. 145 /PCB/CFE/RO-KNL/HO/2014Dt. 13.02.2015

Sub: PCB – CFE – M/s BMM Cement Limited (Gudipadu Lime Stone Mining), Gudipadu (V), Yadiki (M), Anantapuram 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. Industry's application received on 07.07.2014 and industry request lr. dt. 18.07.2014 received on 19.07.2014.  
 2. R.O's inspection report dt. 19.07.2014.  
 3. Industry lr. dt.18.12.2014.  
 4. EC order dt. 12.12.2014.  
 5. CFE Committee meeting held on 27.01.2015.  
 6. Industry lr.dt. 27.01.2015 & 30.01.2015 enclosing the Approved Mining Plan.

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1. In the reference 1<sup>st</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to produce the following with installed capacities as mentioned below, with a project cost of Rs. 24.0 Crores.

Sl. No.	Name of the product	Total capacity
1	Lime stone mining	1.0 Million TPA

2. As per the application and Approved Mine Plan (by IBM), the above activity is to be carried out at Sy.Nos. 15B, 15C, 16A, 16C, 17, 18A, 18B, 18C, 19, 20, 21A, 21B, 22A, 22B, 22C, 22D, 22E, 22F, 22G, 22H, 23A, 23B, 24A, 24B, 24C, 25, 26, 27, 28, 29, 30A, 30B, 30C, 31, 32A, 32B, 33, 34, 35A, 35B, 36A, 36B, 36C, 37, 38B, 39B, 40B, 41-1, 41-4, 42, 43, 44B, 45, 46, 47A, 47B, 47C, 47D, 48, 49A, 49B, 50, 51B, 52A, 52B, 52C, 53, 54, 55, 59A, 59B, 59C, 59D, 68A, 68B-1, 68B-2, 69A, 69B-1, 69B-2, 69C, 70A, 70B, 71A, 71B, 72, 73A, 73B, 73C, 73D, 73E, 74, 75A, 75B, 75C, 76, 77, 78A, 78B, 78C, 78D, 78E, 78F, 78G, 78H, 78I, 78J, 78K, 78L, 80A, 80B, 80C, 80D, 80E, 80F, 80G, 85A, 85B, 85C, 86A, 86B, 86C, 86D, 86F, 86G, 86H, 86I, 86J, 86K, 86L, 86N, 86P, 86Q, 86R, 86S, 86T, 86U, 86V, 88A, 88B, 89A, 90A, 90B, 90C, 90D, 90E, 90F, 90G, 90H, 90I, 90J, 90K, 90L, 90M, 90N, 90O, 90P, 90Q, 90S, 90T, 90U, 90V, 91A, 91B, 91C, 91D, 91E, 91F, 91G, 94, 95, 183-1, 183-2, 183-3, 183-4, 184-1, 184-2, 189, 190, 191-1, 191-2, 191-3, 192, 193A, 193B-1, 193B-2, 194-1, 194-2, 195, 196A, 196B, 197A, 197B, 198, 199A-1, 199A-2, 199B, 199C, 199D-1, 199D-2, 199E-1, 199E-2, 199F, 200A, 200B, 201A-1, 201A-2, 201B, 202A, 202B, 202C, 203, 204, 205, 206, 207, 208, 209, 211-1, 211-2, 211-3, 212, 213A, 213B, 213C, 215A, 215B, 216, 217-1, 217-2, 217-3, 218, 219B, 220A, 220B, 221A, 221B, 221C, 223A, 223B, 223C, 223D, 223E, 223F, 224A-1, 224A-2, 224B-1, 224B-2, 224C-1, 224C-2, 224D, 225, 226, 227-1, 227-2, 228-1, 228-2, 390, 393, 394A, 394B, 394C, 394D, 395A, 395B, 396, 397, 398, 399, 400A-1, 400A-2, 400B, 400C, 400D, 400E-1, 400E-2, 400F, 400G-1, 400G-2, 401A, 401B, 401C, 402A, 402B, 402C, 402D, 403, 404A, 404B, 404C, 404D, 404E, 404F, 404G, 404H, 405, 406, 407, 408, 409A, 409B, 410, 411, 412, 413A, 413B, 414A, 414B, 414C, 414D, 415A, 415B, 415C, 415D, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430A, 430B, 431A, 431B, 432, 433A, 433B, 433C, 433D-1, 433D-2, 434A, 434B, 435A-1, 435A-2, 435B, 435C, 436, 437A, 437B, 438, 439, 440A, 440B-1, 440B-2, 441A-1, 441A-2, 441B, 442A, 442B, 442C, 443, 444. of Gudipadu (V), Yadiki (M), Anantapuram District in the total area of 454.59 Ha.
3. The above site was inspected by the Asst. Environmental Engineer, Regional Office, Kurnool, A.P Pollution Control Board on 10.07.2014 and found that the site is surrounded by

**North** : Hillock

**South** : Agricultural lands

**East** : Hillock

**West** : Open land belongs to M/s BMM Cement plant

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 activity 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.

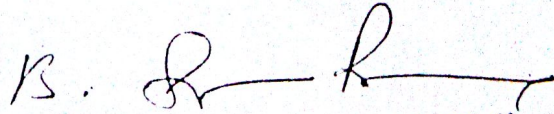
Encl: Schedule 'A'  
Schedule 'B'

**Sd/-**  
**MEMBER SECRETARY**

To  
M/s BMM Cement Limited,  
(Gudipadu Lime Stone Mining),  
101, 1<sup>st</sup> floor, Pride Estate, No. 10,  
Museum Road, Bangalore- 560001.  
[honnursaheb@bmm.in](mailto:honnursaheb@bmm.in),  
[prashant4hegde@gmail.com](mailto:prashant4hegde@gmail.com)

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.

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

  
Jt. Chief Environmental Engineer (UH-1)



### 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. 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.
3. 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.
4. 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.
5. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
6. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.
7. This order is valid for period of 5 years from the date of issue.

### SCHEDULE - B

#### Water:

1. The source of water is Bore well and Mine pit. The maximum permitted water consumption is 45.0 KLD.

Sl. No.	Purpose	Quantity (KLD)
a.	Workshop	01.0
b.	Dust suppression	25.0
c.	Gardening / Irrigation	15.0
d.	Domestic	04.0
	<b>Total</b>	<b>45.0</b>

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

Sl. No.	Source	Quantity (KLD)
a.	Washings (vehicle)	1.0
b.	Dust suppression	---
c.	Gardening / Irrigation	---
d.	Domestic	3.2
	<b>Total</b>	<b>4.2</b>

#### Treatment & Disposal:

Source of Treatment	Treatment	Mode of final disposal
Vehicle washings	Oil & grease trap, settling tank	On land for gardening.
Domestic	----	Septic tank followed by soak pit

3. The industry shall ensure that no natural water course shall be obstructed due to any mining operations.
4. Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, greenbelt development, etc.

The drains shall be regularly desilted, particularly after monsoon and maintained properly

5. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.
6. Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the proponent in and around project area in consultation with the Regional Office, APPCB. The frequency of monitoring shall be four times a year –pre-monsoon (April/May), monsoon (August), Post –monsoon (November), and winter (January). The trend analysis of ground water quality monitoring shall be compared with base line data and requisite preventive measures shall be implemented to avoid depletion / deterioration of the ground water sources. Data thus collected shall be sent at regular intervals to the Regional Office, APPCB.
7. The proponent has to provide a trench for storm water draining from the mine lease area to aid in preventing the sedimentation of silt and avoid siltation at the discharge end of check dams.
8. The project proponent shall take appropriate mitigative measures to prevent pollution of nearby River and other surface water body.
9. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
  - a) Spraying in mine pits.
  - b) Domestic purposes.
  - c) Processing, whereby water gets polluted and pollutants are easily bio- degradable.
10. A safe zone of width 50m on either side from water stream passing through lease shall be left as stipulated in EC order dt. 12.12.2014.

**Air:**

11. The proponent shall comply with the following for controlling fugitive emissions.
  - Water spraying shall be done on the blasted muck pile before loading by excavator to suppress the dust.
  - To control dust from drilling operations, drilling with dust collectors/wet drilling shall be practiced. Also drill speeds shall be regulated as per manufacturer's guidelines.
  - Regular Water spraying shall be done on haul roads and during unloading at crusher hopper to suppress the dust effectively.
  - Overloading of transport equipment shall be prevented in order to stop spillage.
12. The proponent shall comply with the following for controlling noise emissions.
  - Machineries shall be properly maintained to prevent undesirable noise. Attention shall be paid towards rigorous maintenance of the silencers of diesel engines.
  - Surface drilling and blasting operations shall not be carried out at night.
  - The drilling shall be done with sharp drill bits to reduce generation of noise during drilling.
  - Controlled blasting with optimum charge per hole shall be practiced to reduce generation of noise.



- Hydraulic rock breaker shall be used in lieu of secondary blasting.
  - Drill machine operators and dumper drivers shall be equipped with earplugs and earmuffs. The duty hours of operators working near the machinery shall be regulated to keep their noise exposure levels within limits.
  - Periodical monitoring of noise level of mining machines and at some locations in the mining site shall be done with the help of noise level meter.
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. Ambient air quality monitoring stations shall be provided in core and buffer zone in down windward direction in consultation with concerned Regional Officer of APPCB for monitoring of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>. The consolidated monthly report of the same shall be submitted.
  15. Sequential blasting and use of non-electric delay detonators shall be adopted to reduce ground vibrations.
  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 Waste:**

17. The proponent shall comply with the following:

Sl. No.	Solid Waste generated from	Quantity	Method of Disposal
1	Mining	Top soil - 8.54 million m <sup>3</sup> during the life of the mine	Temporary dumping and utilized for afforestation.
2	Earth moving equipment	Waste oil	Agencies authorized by APPCB/ used for lubrication in earth moving equipment

18. Top Soil, if any, shall be stacked with adequate measures with proper slope at earmarked site (s) only and shall be used for reclamation / plantation and rehabilitation of mined out areas.
19. 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) Batteries (Management & Handling) Rules, 2010.
  - c) E-Waste (Management & Handling) Rules, 2011.

#### **Other Conditions:**

20. Green belt of width 7.5 m shall be developed around the mine lease area, on OB dumps, along the roads etc., by planting native species in consultation with local DFO as stipulated in the EC order dt. 12.12.2014.
21. The proponent shall obtain Consent For Operation from the APPCB before the commencement of mining activity. This shall be strictly adhered to without fail.
22. The proponent shall explore the possibility to convert mined area into a reservoir by plugging the leakages.



23. The proponent shall carryout studies on ground vibrations due to blasting activities. Based on the reports of every blast, the blasting parameters shall be modified if necessary with approval of concerned department.
24. Muffle blasting shall be done towards the villages side.
25. 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.
26. The proponent shall comply with all the directions issued by the Board from time to time.
27. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attracts action under the provisions of relevant pollution control Acts.
28. 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.
29. 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**

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

  
**Jt. Chief Environmental Engineer (UH-1)**