



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

Website :www.appcb.ap.nic.in

CONSENT ORDER FOR ESTABLISHMENT

Order No.160/APPCB/CFE/RO-VZM/HO/2008

Dt.22.03.2022

Sub: APPCB – CFE - **M/s. Berry Alloys Limited, Plot No. 368 & 368/A, APIIC, Growth Center, Sy.No.6/1 to 19; 6/20p & 6/21 to 32, Growth Center, Bobbili (V) & (M), Vizianagaram 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 expansion order dt.16.11.2021 issued by MoEF &CC, Gol, New Delhi.
2) Industry's CFE Expansion application received through APOCMMS on 27.11.2021.
3) R.O's inspection report dt.18.12.2021.
4) CFE Committee meeting held on 23.12.2021.
5) CFE (expansion) Rejection order dt.28.12.2021.
6) RO: VZM report dt.10.02.2022, with compliance report, based on industry's request lr.dt.19.01.2022.
7) Industry's lr.dt.02.03.2022.
8) CFE Committee meeting held on 08.03.2022.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **expansion** to produce the products with installed capacities as mentioned below, with an additional investment of Rs.30 Crores:

S. No.	Name Of The Product	Capacity as per EC (Exp) Order dt. 28.08.2018	Capacity as per CFE Exp. Order dt. 10.10.18	Capacity as per EC (Exp) Order dt. 16.11.2021	Qty after exp
1	Ferro Manganese (OR)	1,29,600 TPA or	1,29,600 TPA or	86,400 TPA or	2,16,000 TPA or
2	Silico Manganese (OR)	1,08,000 TPA or	1,08,000 TPA or	72,000 TPA or	1,80,000 TPA or
3	Ferro Silicon (OR)	25,200 TPA or	25,200 TPA or	25,200 TPA	25,200 TPA
4	Ferro Chrome	36,000 TPA	36,000 TPA	Nil	- Deleted as requested by the industry
5	Ferro Alloys	--	--	--	---

6	Sintering Plant	--	150 TPD	--	150 TPD
7	Synthetic slag	--	--	72,000 TPA	72,000 TPA

2. As per the application, the above activity is to be located within the existing premises located at **Plot No. 368 & 368/A, APIIC, Growth Center, Bobbili (V) & (M), Vizianagaram District** in an area of 21.51 acres.

3. The above site was inspected by the Environmental Engineer & Asst. Environmental Engineer, Regional Office, Vizianagaram, A.P Pollution Control Board on 17.12.2021 & 20.01.2022 and observed that the site is surrounded by:
 - North** : Vacant Plot No. 362 & 363;
 - South** : 30-Ft. Internal road followed by AP Tranco 220 KV sub-station.
 - East** : Private lands with Eucalyptus plantation followed by Burjavalasa (V);
 - West** : M/s. Hira smelters.

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendation of the CFE committee, hereby issues **CONSENT FOR ESTABLISHMENT FOR EXPANSION** 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. **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

CHIEF ENVIRONMENTAL ENGINEER

To

**M/s. Berry Alloys Limited, (exp)
Plot No. 368&368/A, APIIC,
SyNo.6/1to19; 6/20p & 6/21to32,
Growth Center, Bobbili (V) & (M),
Vizianagaram District.
berryalloys@gmail.com**

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

ANNEXURE

1. 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.
2. The proponent 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 APIIC & Ground water and the maximum permitted water consumption is as following:

S. No.	Purpose	Qty as per EC dt.28.08.2018 & dt.16.11.2021	Qty as per CFO Order dt.08.05.2018	Qty as per CFE (Exp) Order dt.10.10.2018	Applied for CFE(Exp)	Total Qty after CFE expansion
1.	Cooling Purpose	--	50.0 KLD	25.0 KLD	40.0 KLD	115.0 KLD
2.	Domestic (Canteen, Toilets)	--	11.0 KLD	1.0 KLD	2.0 KLD	14.0 KLD
3.	Dust Suppression		---	2.0 KLD	3.0 KLD	5.0 KLD
4.	Greenbelt		---	2.0 KLD	5.0 KLD	7.0 KLD
5.	Washings (Ore Washings)		5.0 KLD	---	---	5.0 KLD
	Total		140 KLD	66.0 KLD	30.0 KLD	50.0 KLD

* Quantity shall be restricted to 140 KLD as per EC order dt.16.11.2021.

Separate meters with 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 EC order dt. 28.08.2018 & 16.11.2021	Qty as per CFO Order dt.08.05.2018	Qty as per CFE (Exp) Order dt.10.10.2018	Total Qty after CFE expansion
1.	Washings	---	64.0 KLD	---	
2.	Domestic	---	5.5 KLD	0.8 KLD	2.80 KLD
	Total:		69.5 KLD	0.8 KLD	2.80 KLD

Treatment & Disposal:

Outlet No.	Outlet Description	Quantity (KLD)	Point of Disposal
1.	Domestic Effluent	2.8 KLD	STP of capacity 10 KLD for treatment of domestic wastewater along with softener wastewater and jigging plant.

The industry also generates softener regeneration water, scrubber wastewater, cooling plant, Jigging plant, staff quarters, canteen and labour quarters. The industry shall furnish the quantity of waste water generated from all sources and capacity of adequate treatment system while applying for CFO.

6. Closed circuit cooling system shall be adopted for cooling system. No waste water shall be discharged outside the factory premises under any circumstances and zero effluent discharge shall be adopted.
7. The collection / settling tanks shall be impervious to prevent ground water pollution.
8. The domestic effluents shall be treated to the on land for irrigation standards, stipulated under Schedule VI of Environment (Protection) Rules, 1986, notified by Ministry of Environment and Forests, Government of India vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof.
9. The industry shall install flow meters with totalizer for the purpose of measuring the quantity of treated effluents recycled for various uses.

Air:

The industry shall comply with the following to control air pollution:

As per CFO (Exp) order dt.15.02.2019:

S. No	Details of Stack	Stack 1	Stack 2	Stack 5	Stack 6
a)	Attached to:	Furnace	Furnace	Sinter plant	DG Set
b)	Capacity	2 X 9 MVA electrical arc furnaces	3 X 9 MVA electrical arc furnaces	Cast iron pans of 24 Nos. of capacity 600 Kg/hr	125 KVA
c)	Name of the Fuel	Electrical Power	Electrical Power	Electrical Power	Diesel
d)	Stack height above ground (m.)	Common stack of height 30m	Common stack of height 30m Each	Common stack of height 30 m Each	12-Ft.
e)	Air Pollution Control Equipment	Dedicated heat exchanger followed by Bag house(8 chambers) with ID Fan	Dedicated heat exchanger followed by Bag house (8 chambers) with ID Fan	cyclone separator(1x12 pans) followed by wet scrubber with ID Fan	Silencer

*Note: The Board as per EC (Exp) dt.27.02.2018 & CFE (Exp) dt. 10.01.2018, issued for 6 x 9 MVA furnaces, but the industry established 5 x 9 MVA furnaces and obtained CFO dt. 15.02.2019 for 5 x 9 MVA furnaces only.

CFE Expansion (additional) :

S. No.	Details of Stack	Stack 3	Stack 4
a)	Attached to:	Furnaces	Furnaces
b)	Capacity	2 X 9 MVA submerged electrical arc furnaces(1 existing & 1 proposed)	1 X 9 MVA submerged electrical arc furnaces(1 proposed)
c)	Name of the Fuel	Electrical Power	Electrical Power
d)	Stack height above ground (m.)	Common stack of height 30m (Dia: 1.5 m)	Common stack of height 30m (Dia: 1.5m)
e)	Air Pollution Control Equipment	Dedicated heat exchanger followed by Bag house(8 chambers) with ID Fan	Dedicated heat exchanger followed by Bag house(8 chambers) with ID Fan

Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³ as stipulated in the EC order.

10. **The industry shall use the emergency stacks during emergency only and record the durations in the plant operation register.**
11. **Industry shall use slag granulator.**
12. The bag filters shall have capacity of not less than 1.5 times the requirement of the existing plus proposed expansion project. The dust collected in the bag houses shall be reused in the Sinter Plant.
13. The proponent shall properly maintain the 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 industry shall always place the hood over the furnaces to collect the emissions, except during charging of raw materials into the furnace.
15. All the conveyors shall be covered with G.I sheets to prevent fugitive emissions.
16. All the raw material & solid waste shall be accommodated under roof cover with required safety ventilation as approved by the competent authorities. There shall not be any open piling.
17. The industry shall install dust extraction system and water sprinkling system at handling areas, stock piles, transfer areas and other vulnerable dusty areas to control dust emissions.
18. The industry shall provide dust suppression system at all the discharge and feed points.
19. All the internal roads shall be concreted / asphalted to control fugitive emissions.

20. The industry shall install separate energy meters to air pollution control equipment and maintain records pertaining to operation and maintenance of the control equipment.
21. 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 regular operational phase of the project.
22. 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.
23. The generators shall be installed in a closed area with a silencers 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.
24. Occupational Health monitoring of all workmen engaged at shop-floor, loading and unloading material / products shall be carried through IME and PME once in 5 years.

Solid / Hazardous Waste:

25. The proponent shall comply with the following after CFE Expansion :

S. No.	Name of the Hazardous Waste	Existing	Proposed Qty	After CFE expansion	Disposal Option
1	Slag	90 TPD	90 TPD	180 TPD	To brick manufacturers
2	Dust from bag filter	1.0 TPD	1 TPD	2.0 TPD	Reuse inside plant via sintering
3	Kitchen waste	--	10 kg/day	10 kg/day	Shall be composted or Bio digester shall be provided
4	Waste oil	0.5 KL/annum	0.5 KL/annum	0.5 KL/annum	Sent to authorized reprocessing unit

26. 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.
 - j. The Public Liability Insurance Act, 1991 and its amendments thereof.

Other Conditions:

27. The industry shall comply with the following conditions:
 - a) Green belt shall be developed in the vacant places, on either side of the internal roads, so that the total area of the green belt shall be 33% of the total area.
 - b) Continuous emission monitoring system shall be installed for all the furnaces and shall connect to the servers of APPCB and CPCB before applying for CFO.
 - c) Online LED display board shall be installed at the main gate within a month or before applying for CFO, whichever is earlier.
28. The industry shall comply with all the conditions stipulated in the EC expansion order dt.16.11.2021 issued by MoEF & CC, GoI, New Delhi.
29. Fire detection and fire fighting facilities with adequate water storage facility shall be provided in fire prone area in consultation with competent authorities.
30. Onsite & offsite Disaster Management plan shall be prepared to meet any eventuality in case of any accident. Mock drills shall be conducted atleast twice a year and modifications required if any shall be incorporated in Disaster Management Plan and shall submit to Board.
31. The industry shall display online data outside the main factory gate on quantity and nature of hazardous chemicals being used in the plant, water & air emissions and solid waste generated within the factory premises, as per Hon'ble Supreme Court order.
32. **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.**
33. **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.**
34. **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.**
35. **The industry shall obtain PESO clearance & policy under PLI Act before applying for CFO of the Board.**
36. The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity / toxicity / flammability / explosive stored/handling in the premises as defined in the Management of Storage, Import of Hazardous Chemicals (MSIHC) Rules, 1989 and the details shall be furnished to

the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.

37. The industry shall identify major accident hazard chemicals & list out the hazardous chemicals endangered to human health & environment and the details shall be furnished to the Factories Department and to the Regional Office, APPCB time to time duly certifying the same by the industry. Further the industry shall extend training to the working personnels while handling hazardous chemicals for prevention of accidents and necessary antidotes to ensure the safety, as per the MSIHC Rules, 1989.
37. The industry shall carryout calibration of safety equipments and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
38. The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity / toxicity / flammability / explosive stored/handling in the premises as defined in the Management of Storage, Import of Hazardous Chemicals (MSIHC) Rules, 1989 and the details shall be furnished to the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.
39. **The industry shall comply with the Technical suggestions at Chapter No. 7.3 & 7.4 for Hazardous Chemical handling industries by High Power Committee (HPC) of Govt. of Andhra Pradesh. The HPC report is available at www.ap.gov.in.**
40. 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.
41. 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.
42. **The industry shall submit compliance to the conditions stipulated in the EC and CFE 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_Combpliance_of_EC_CFE_CFO_Direction.aspx.**
43. 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.
44. 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 attract action under the provisions of relevant pollution control Acts.

45. 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.
46. 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. Berry Alloys Limited,(exp)
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