सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change

Date: **22/12/2023**

ACKNOWLEDGEMENT

This is to acknowledge that ACC LIMITED'S has provided the information on PARIVESH Portal in respect of Installation of high efficiency latest technology 1.5 MTPA VRM by replacement of the old and inefficient 4 Ball Mills and 1 VRM without change in total production capacity of 4.5 MTPA; no change in existing product mix of PSC, PPC, OPC, Composite Cement & GGBFs and Plant Area 65.49 Acres for Sindri Cement Works (Grinding Unit) located at Village: Sindri, Tehsil & District: Dhanbad; Jharkhand-828124 (NIPL for Modernisation of Phase-1 Unit with No Change in Production, Product Mix & Plant Area) in the format attached herewith under the provisions of Para 7(ii) b of EIA Notification, 2006 and its subsequent amendment S.O.980 (E), dated 02nd March 2021.

To claim exemption from obtaining Prior Environment Clearance under the provisions of Para 7(ii) b of EIA Notification, 2006 and its subsequent amendment S.O 980 (E) dated 02nd March 2021 in respect of any increase in production capacity with or without any change in (i) raw material-mix or (ii) product-mix or (iii) quantities within products or (iv) number of products including new products falling in the same category or (v) configuration of the plant or process or (vi) operations in existing area or (vii) In areas contiguous to the existing area specified in the environmental clearance of the project, the project proponent / SPCB or UTPCC shall follow the following process:

1.The project proponent shall inform the SPCB or UTPCC, as the case may be, in specified format along with: (i) 'No increase in Pollution Load' certificate from the Environmental Auditor or reputed institutions empanelled by the SPCB or UTPCC or CPCB or Ministry;
(ii) last Consent to Operate certificate for the project or activity; and
(iii) online system generated acknowledgement of uploading of intimation and 'no increase in pollution load' certificate on PARIVESH Portal.

2. Based on the submission of above information, the project proponent may carry on the proposed activity as per the submitted details. However, if on verification the SPCB or UTPCC, as the case may be, holds that the change or expansion or modernization will result or has resulted in increase in pollution load, the exemption claimed under this clause shall not be valid and it shall be deemed that the project proponent was liable to obtain Prior Environmental Clearance before under taking such changes or increase, as per the clause (a) of sub-paragraph (ii) of paragraph 7 of EIA Notification, 2006 and the provisions of Environment (Protection) Act, 1986 shall apply accordingly.

Encl: Attached the Information provided by the project proponent

CAFForm 10

Application for No Increase in Pollution Load - Form-10

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Basic Details

1. Whether Project /Activity accorded prior EC?	Yes
1.1. Proposal No.	IA/JH/IND/250822/2022
1.2. Name of Project	Sindri Cement Works Cement grinding Capacity from 2.5 MTPA to 4.5 MTPA for manufacturing, storage and dispatch of cement located at Sindri, Dhanbad district of Jharkhand by M/S ACC Limited
1.3. Whether the Project Activity attracts the provisions under	7(ii) (b)
1.3.1. Category	A
1.3.2. Whether Project/Activity falls in the category of Processing or Production or Manufacturing Sectors?	Yes
1.3.3. Whether multiple items (Components) as per the notification involved in the proposal?	No

1.3.3.1. Item No. as per schedule to EIA Notification, 2006 for Major Activity	3(b) Cement plants	Integrated Cement plants and Grinding units
1.3.3.2. Capacity	4.5	MTPA

1.3.3.3. Whether Project/Activity falls in 'B2' Category	No
2. Whether the project proposed to be located in the Notified industrial area?	No

3. Details of Consent under Air (P&CP) Act, 1981 & Water (P&CP) Act, 1974

Consent No/Application No	Date	Valid Up to	Copy of Consent order
JSPCB/HO/RNC/CTO-10665793/2022/7	01/01/2022	31/12/2023	Updated CTO.pdf Preview
JSPCB/HO/RNC/CTO-8267234/2020/1992	30/12/2020	31/12/2021	CTO 2.pdf Preview

Consent No/Application No	Date	Valid Up to	Copy of Consent order
JSPCB/HO/RNC/CTO-6087479/2019/2624	31/12/2019	31/12/2021	CTO 3.pdf Preview

4. Details of Authorization under Hazardous & Other Waste Management Rules, 2016 and subsequent amendment

Authorization No./ Application No	Date	Valid Up to	Copy of Authorization order
JSPCB/HO/RNC/HWM-16334962/2023/76	02/12/2023	18/09/2028	Authorization for Hazardous Waste 2023 to 2028.pdf Preview

Product Details

1. Details of products & by-products including changes in product mix

List of products/by-products permitted under EC / CTO with CAS Number	Quantity permitted under EC / CTO	Unit	List of products/by- products proposed under clause 7(ii)(b) with CAS Number	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Portland Slag Cement (PSC),Portland Pozzolana Cement (PPC),Ordinary Portland Cement (OPC), Composite Cement (CC), Grinding of Granulated Blast Furnace Slag (GGBFS)	4500000	TPA	Portland Slag Cement (PSC)- 65997-15-1, Portland Pozzolana Cement (PPC)- 65997-15-1, Ordinary Portland Cement (OPC)- 65997-15-1, Composite Cement (CC)- 65997-15-1, Grinding of Granulated Blast Furnace Slag (GGBFS)- 65997-15-1	4500000	TPA	

2. Details of Raw materials including water consumption and fuel consumption including changes in the raw material mix

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Gypsum-13397-24-5	246000	TPA	Gypsum	246000	TPA	Imported from Bhutan, Oman and Thailand by Rail Road
Clinker-65997-15-1	2405400	TPA	Clinker	2405400	TPA	ACC's Jamul, Chaibasa, Bargarh & Kymore cement plants of ACC By Rail/Road
Coal-125612-26-2	53380	TPA	Coal	35380	TPA	Eastern Coalfields & E / Rail auction by Rail Road
Slag/Ground Granulated Blast Furnace Slag-65996-69-2	2419000	TPA	Slag/Ground Granulated Blast Furnace Slag	2419000	TPA	Tata Steel-Jharkhand, Tata Kalinganagar, Ortssa, Jindal Steel -Ortssa, IISCO Burnpur, & Bhushan steel by Rail/Road
Fly Ash-68131-74-8	950000	TPA	Fly Ash	950000	TPA	Maithon, Bokaro and Santadi Power plants by Road (bulker)

2.1. Approval for additional water consumption if applicable	No

3. Details of Effluent Generation

3.1. Quantity

Propose	Quantity of existing effluent generati on in KLD (as per EC/CTO)	Quantity of effluent generation after the proposed change in product or raw material mix in KLD	Mode of Disposal Ultimate Receiving Body
Industrial	0	0	-
Domestic	98	98	No Change in effluent generation after modernization. The treated sewage water is used for greenbelt development within plant and colony

3.2. Quality

Composition as per the EC/CTO	Concentration as per EC/CTO in (mg/L)	Composition after proposed change in product or raw material mix	Concentration after proposed change in product or raw material mix in (mg/L)	Remarks, if any
Total Suspended Solids	7.2	No Change	7.2	Total Suspended Solids- Inlet 14.8 mg/L Out Let 7.2. There will be No Change in effluent Composition & Concentration
Oil & Grease	1.3	No Change	1.3	Oil & Grease Inlet 1.3 mg/L Out Let 5.6 There will be No Change in effluent Composition & Concentration
C.O.D	24.8	No Change	24.8	Inlet 135 mg/L Out Let 24.8. There will be No Change in effluent Composition & Concentration
BOD5 days 20 C mg/l	2.4	No Change	2.4	BOD5 days 20 C mg/l Inlet 13.8 mg/L Out Let 2.4. There will be No Change in effluent Composition & Concentration

3.3. Total load in respect of Effluent

Total load in respect of Effluent as per the EC/CTO	Treatmen t facility existing (with capacity in KLD)	Total load in respect of Effluent after proposed change in product or raw material mix in KLD	Treatment facility proposed with capacity after proposed change in product or raw material mix in KLD	Remarks if any
98	7.2	98	0	AS per EC/CTO there is no effluent generate in Plant area, only 98 KLD Domestic water will be generate from Colony area. Which will be Treated by

Total load in respect of Effluent as per the EC/CTO	Treatmen t facility existing (with capacity in KLD)	Total load in respect of Effluent after proposed change in product or raw material mix in KLD	Treatment facility proposed with capacity after proposed change in product or raw material mix in KLD	Remarks if any
				200 KLD STP. No effluent will be increases after proposed change no need for proposed Treatment facility

3.4. Details of effluent management

3.4.1. Whether Segregation of Concentrated stream and its disposal is proposed?	No
7.4.2. Whether Reduction / Recycle / Reuse of effluent are proposed?	Yes
7.4.2.1. Brief report on details of Reduction / Recycle / Reuse of effluent	Reuse of effluent.pdf Preview
7.4.3. Whether any additional Effluent Treatment Facilities Provided?	No
7.4.4. Whether is there any proposal for up-gradation of ETP?	No
7.4.5. Whether the unit is having Membership of Common Effluent Conveyance / Disposal Facility?	No
7.4.6. Whether it is Proposed to achieve zero discharge?	Yes
7.4.6.1. Brief report on Proposal to achieve zero discharge with technical justification and feasibility	Zero Discharge.pdf Preview
7.4.7. Whether Project has Membership of CETP?	No

Emission Generation

1. Details of Emission Generation

1.1.

Quantity

(i) From Stacks

Point Source (s)	Height of stack (m)	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
PM-Packer No 4 (New plant)	25	18512	Cu.M/Hr	20	Mg/Cu.M	18512	Cu.M/Hr	20	Mg/Cu.M
PM-Vertical Roller Coal	57	37023	Cu.M/Hr	22	Mg/Cu.M	37023	Mg/Cu.M	22	Mg/Cu.M

Point Source (s)	Height of stack (m)	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
Mill									
PM-Wagon Tippler	35	522884	Cu.M/Hr	16	Mg/Cu.M	522884	Cu.M/Hr	16	Mg/Cu.M
PM-Packer No 5 (New plant)	30	17676	Cu.M/Hr	21	Mg/Cu.M	7676	Cu.M/Hr	21	Mg/Cu.M
PM-Packer No 1 (old plant)	10	9489	Cu.M/Hr	22	Mg/Cu.M	9489	Cu.M/Hr	22	Mg/Cu.M
PM-Cement Mill No. 1	11.5	7725	Cu.M/Hr	20	Mg/Cu.M	7725	Cu.M/Hr	20	Mg/Cu.M
PM-Cement Mill No.4	13	19612	Cu.M/Hr	20	Mg/Cu.M	19612	Cu.M/Hr	20	Mg/Cu.M
PM-Cement Mill No.3	16	16562	Cu.M/Hr	18	Mg/Cu.M	16562	Cu.M/Hr	18	Mg/Cu.M
PM-Vertical Roller Mill 2	72	410018	Cu.M/Hr	21	Mg/Cu.M	410018	Cu.M/Hr	21	Mg/Cu.M
PM-Packer No 3 (New plant)	25	23004	Cu.M/Hr	21	Mg/Cu.M	23004	Cu.M/Hr	21	Mg/Cu.M
PM-Packer No 2 (old plant)	15	10799	Cu.M/Hr	22	Mg/Cu.M	10799	Cu.M/Hr	22	Mg/Cu.M
PM-Cement Mill No. 2	11.5	5209	Cu.M/Hr	22	Mg/Cu.M	5209	Cu.M/Hr	22	Mg/Cu.M
PM-Vertical Roller Mill 3	43	197579	Cu.M/Hr	20	Mg/Cu.M	197579	Cu.M/Hr	20	Mg/Cu.M
PM-Vertical Roller Mill-1	33	111841	Cu.M/Hr	22	Mg/Cu.M	111841	Cu.M/Hr	22	Mg/Cu.M
PM-Packer No 6 (New plant)	30	19497	Cu.M/Hr	23	Mg/Cu.M	19497	Cu.M/Hr	23	Mg/Cu.M

(ii)From Fugitive sources

Fugitive Sources	Height of discharge in m	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
PM-Coal Yard area	16	16562	Cu.M/Hr	427	Mg/Cu.M	16562	Cu.M/Hr	427	Mg/Cu.M
PM-New Truck Loading area at Packing Plant	25	23004	Cu.M/Hr	607	Mg/Cu.M	23004	Cu.M/Hr	607	Mg/Cu.M
PM-Cement Mill area	11.5	7725	Cu.M/Hr	769	Mg/Cu.M	7725	Cu.M/Hr	769	Mg/Cu.M
PM-Wagon Tippler Wagon unloading area	35	522884	Cu.M/Hr	267	Mg/Cu.M	522884	Cu.M/Hr	267	Mg/Cu.M

(iii) From other sources

Other Source(s)	Height of discharge in m	As per EC / CTO			After proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
SO2 2.5-Near Packing Plant	30	19497		11.4	Mg/Cu.M	19497	Cu.M/Hr	11.4	Mg/Cu.M
PM 2.5-Near Packing Plant	30	19497		49	Mg/Cu.M	19497	Cu.M/Hr	49	Mg/Cu.M
PM 10-Near Packing Plant	30	19497		82	Mg/Cu.M	19497	Cu.M/Hr	82	Mg/Cu.M
NO2-Near Packing Plant	30	19497		31.7	Mg/Cu.M	19497	Cu.M/Hr	31.7	Mg/Cu.M

1.2.

Quality

Stack attached to	Stack Height in Meter	APCM	Parameter	Concentration			
				As per EC / CTO	Unit	After the proposed change in product or raw material mix	Unit
Cement Mill No. 1	11.5	Bag Filter	PM	20	Mg/Cu.M	20	Mg/Cu.M

2.

Total load in respect of Emission

Total load in respect of emission as per the EC / CTO	Unit	APCM existing with capacity	Unit	Total load in respect of emission after proposed change in product or raw material mix	Unit	APCM proposed with capacity after proposed change in product or raw material mix	Unit	Remarks if any
10.89	g/s	785500	Cu.M/Hr	10.89	g/s	785500	Cu.M/Hr	N/A

3.Details of emission management

3.1. Whether there is any Proposal for switching over to cleaner fuel?	No
3.2. Whether there is any Proposal for the up gradation of	No

existing APCM? (with the time-bound program)	
3.3. Whether there is Proposal for the installation of new APCM? (with time-bound program)	No

1.Hazardous Waste Generation

1.1.

Quantity and type of waste

Type of Waste	Category (As per Schedule under Hazardous & Other Waste Management Rules, 2016)	Generation per Year						
		Existing as per the EC / CTO	Unit	After Change in Product Mix	Unit	Source of Generation	Mode of Storage	Mode of Treatment & Disposal method
Wastes/residues (not made with vegetable or animal materials) (33.2 contaminated cotton rags or other cleaning materials)	Cat-I;	5	Tons per Annum (TPA)	5	Tons per Annum (TPA)	Plant	Kept in MS Drums; through authorized agency	TSDF
Used Oil	Cat-I; 5.1;	0.055	Kilo liters per Day (KLD)	0.055	Kilo liters per Day (KLD)	DG Set	Kept in MS Drum; Sold to authorized recycler	TSDF

1.2.

Details of Waste management

1.2.1. Whether Proposal for reduction / recovery / reuse / recycle / sale of waste (with technical details) is proposed?	No
1.2.2. Whether Project has Membership of Common Secured Landfill Site?	No
1.2.3. Whether Project has Membership of Common hazardous waste incineration facility	No

2.

No Increase in Pollution Load certificates from the authorized environmental auditor and countersigned by Project Proponent

2.1. Authorized environmental auditor/Reputed Institution Empaneled by the SPCB/CPCB/MoEFCC	NABET-QCI Certified
2.2. Upload the Certificate of 'No Increase in Pollution' Load.	Certificate.pdf Preview

3.

Online Continuous effluent/emission Monitoring System

Quantity

							Date of connection to the servers of	
Attribute	**Constituents**	**Date of installation**	**Details calibration of OCEMS**	**No. of time data exceeds the limit**	**Value Exceeded**	**Status of OCEMS functioning**	**CPCB**	**SPCB**
Emissions	PM-VRM-1	05/10/2013	20.12.2022	0	0	Yes	20/10/2013	20/10/2013
Emissions	PM-VRM-3	22/01/2021	20.12.2022	0	0	Yes	20/01/2021	20/01/2021
Emissions	PM-Cement Mill-4	15/04/2014	20.12.2022	0	0	Yes	06/11/2014	06/11/2014
Emissions	PM-Cement Mill-1	10/09/2016	20.12.2022	0	0	Yes	06/06/2018	06/06/2018
Emissions	PM_VRM-2	03/09/2016	20.12.2022	0	0	Yes	30/09/2016	30/09/2016
Emissions	PM-Cement Mill-2	10/09/2016	20.12.2022	0	0	Yes	06/06/2018	06/06/2018
Emissions	PM-Cement Mill-3	15/04/2015	20.12.2022	0	0	Yes	06/06/2014	06/06/2014
Emissions	PM-Coal Mill	03/09/2016	20.12.2022	0	0	Yes	20/08/2016	20/08/2016

1.Additional Information

S. No.	Document Name	Remark	Document
1	EMP	EMP	EMP.pdf Preview
2	Authorization Letter To Ecoman	Authorization Letter To Ecoman	Authorization Letter To Ecoman.pdf Preview
3	Covering Letter For Submission OF NIPL application	Covering Letter For Submission OF NIPL application	Covering Letter For Submission OF NIPL application.pdf Preview
4	No Increase In Pollution Load Certificate	No Increase In Pollution Load Certificate	No Increase In Pollution Load Certificate.pdf Preview
5	List of Directors_ACC Limited Signed	List of Directors_ACC Limited Signed	List of Directors_ACC Limited Signed (1).pdf Preview

S. No.	Document Name	Remark	Document
6	LOA or Authorization by MD Sir To Plant Manager fo	LOA or Authorization by MD Sir To Plant Manager for signing of documents	LOA or Authorization by MD Sir To Plant Manager for signing of documents.pdf Preview
7	Undertaking_By_ACC	Undertaking_By_ACC	Undertaking By ACC.pdf Preview

1. Undertaking

☐ I hereby give undertaking that the data and information given in the application and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information is found to be false or misleading at any stage, the project will be rejected and clearance given if any to the project will be revoked at our risk and cost. In addition to the above, I hearby give undertaking that no activity/construction/expansion has been taken up

1.1. Name	Mr. L.M.K.V. Srinivas
1.2. Designation	Plant Manager
1.3. Company	ACC LIMITED'S
1.4. Address	ACC Limited's (at Company) Sindri Cement Works, Village: Sindri; Tehsil-Dhanbad cum Kenduadih cum Jagta; District: Dhanbad; State: Jharkhand (Pin Code 828124)
1.5. Date	18-12-2023