Construction of	ARANCE	Gover Ministry of Environme (Impact As	ment of India nt, Forest and Climate Change sessment Division)
	CLE	The COO Smelters and locatio HINDUSTAN ZINC LTD. Chanderiva Lead Zinc Smelter	n head (CLZS) Complex PO Putholi District Chittorgarh
PARIVESH	esponsive Facilitation by Interactive, nvironment Single-Window Hub <b>)</b>	Rajasthan,,,chittorgarh,Rajastha Subject: Grant of Environmental Clearan under the provision of EIA Noti Sir/Madam, This is in reference to your a in respect of project submitted to IA/RJ/IND1/408023/2022 dated 16 Dec clearance granted to the project are as 1. EC Identification No. 2. File No. 3. Project Type 4. Category 5. Project/Activity including Schedule No. 6. Name of Project	an-312021 nce (EC) to the proposed Project Activity fication 2006-regarding pplication for Environmental Clearance (EC) b the Ministry vide proposal number 2022. The particulars of the environmental below. EC23A004RJ174768 IA-J-11011/279/2006-IA-II(IND-I) Expansion A 1(d) Thermal Power Plants Expansion within the existing Chanderiya Lead Zinc Smelter Complex at Villages: Putholi, Ajoliya Ka Khera & Biliya, Tehsil: Gangrar & Chittorgarh, District: Chittorgarh (Rajasthan)
	R	7. Name of Company/Organization	HINDUSTAN ZINC LTD.
	pui	8. Location of Project	Rajasthan
	o-Active a	The project details along with terms and on o 2 onwards.	conditions are appended herewith from page
	(P)	Date: 29/12/2023	(e-signed) Dr. R B Lal Scientist F IA - (Industrial Projects - 1 sector)
	Partition in the second	Note: A valid environmental clearanc number & E-Sign generated from F number in all future correspondenc	e shall be one that has EC identification PARIVESH.Please quote identification e.

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## F. No. IA-J-11011/279/2006-IA-II(IND-I) Government of India Ministry of Environment, Forest and Climate Change (I.A. Division – Industry I sector)

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Indira Paryavaran Bhawan Vayu Wing, 3<sup>rd</sup> Floor, Jor Bagh Road, Aliganj, New Delhi – 110003

Dated: 29th December, 2023

To,

#### M/s Hindustan Zinc Ltd. Chanderiya Lead Zinc Smelter Complex PO Putholi, District Chittorgarh, Rajasthan - 312021 Email: manisha.bhati@vedanta.co.in

Project: Expansion within the existing Chanderiya land Zinc Smelter Complex [Expansion in Hydro Plant by adding 1 Induction Furnace, 1 Slab Casting Line & Integratin of RZO Unit in Hydro-II, Change in Product Mix in Pyro Unit on Total Metal Basis & Installation of 1 Lead Refinery, Expansion of CPP through Modernization and Installation of 1 BPTG, Recovery of Minor Metals & Installation of 5 DG Sets] by M/s Hindustan Zinc Ltd., located at Village Putholi, Ajoliya ka Khera & Biliya, Tehsil Gangrar & Chittorgarh, District Chittorgarh, Rajasthan – Grant of Environmental Clearance regarding.

Sir,

This refers to your proposal no. IA/RJ/IND1/408023/2022 dated 16<sup>th</sup> December, 2022 along with copy of EIA/EMP report, CAF & Form - 1 (Part A, B & C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006, for the project mentioned above. The PP has uploaded the written submission on Parivesh Portal on 20.04.2023.

2. The proposed project activity is listed at schedule no. 3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at central level.

3. The instant Proposal was earlier considered by the 20<sup>th</sup> EAC Meeting held on 21-23 March 2023 wherein the EAC deferred the proposal for want of certain technical details. Further, the proposal was re-considered in the 25<sup>th</sup> EAC Meeting held during  $21^{st} - 23^{rd}$  March, 2023 wherein after detailed deliberations, the Committee **recommended** the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at https://parivesh.nic.in.

4. The matter has been examined in the Ministry and it is mentioned that IA [CMD] sector of the IA Division had issued a letter to M/s. Hindustan Zinc Ltd. on 07.10.2022 seeking clarification for non-compliances, ATR and Action plan on non-complied conditions. Based on the Report submitted by the PP, the IA [CMD] Sector of IA Division, vide Letter No. IA-J-11014/96/2022-IA-I, dated 2<sup>nd</sup> November, 2023 has submitted the Action Closure Letter to the PP.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are as under: -

S. No.	Particulars		Details submitted by the PP							
a.	Terms of Reference for undertaking EIA study		27.09.2021							
b.	Period of baseline data	Post Monso	on Season (October to Dece	ember. 2020)						
0.	collection	One Month	Additional Baseline Study	(Oct2021)						
с.	Date of Public	20 <sup>th</sup> July, 20	)22							
	Consultation	5.								
d.	Action plan to address	Certain amo	ounts have been earmarked to	o address the issues raised						
	the PH issues	during publ	ic hearing. Detail of activity	ties proposed attached as						
		Annexure 1	l							
e.	Location of the project	Village Put	holi, Ajoliya ka Khera &	Biliya, Tehsil Gangrar &						
		Chittorgarh,	Chittorgarh, District Chittorgarh, Rajasthan.							
f.	Latitude and Longitude	Point	Latitude	Longitude						
	of the project site	-1.	24°58'30.50"N	74°39'9.46"E						
	100	2.	24°58'34.43"N	74°39'11.60"E						
		3.	24°58'35.82"N	74°39'14.43"E						
		4.	24°58'33.96"N	74°39'36.32"E						
		5.	24°58'18.91"N	74°39'33.98"E						
		6.	24° <mark>58'13</mark> .18"N	74°39'34.88"E						
		7.	24°57'57.79"N	74°39'30.35"E						
		8.	24°57'55.63"N	74°39'38.71"E						
		9.	24°57'54.54"N	74°39'41.36"E						
		10.	24°57'53.91"N	74°39'43.87"E						
		11.	24°57'56.10"N	74°39'51.41"E						
		12.	24°57'58.60"N	_74°39'57.23"E						
		13.	24°57'59.74"N	74°40'8.81"E						
	9.	14.	24°58'8.09"N	74°40'12.37"E						
	2	15.	24°58'10.99 <b>"N</b>	74°40'0.27"E						
	7.	16.	24°58'9.02"N	74°39'51.19"E						
	es.	17.	24°58'16.98"N	74°39'56.74"E						
	7	18.	24°58'28.38"N	74°39'58.81"E						
		19.	24°58'31.63"N	74°40'0.68"E						
		20.	24°58'31.40"N	74°40'3.51"E						
		21.	24°58'30.70"N	74°40'11.81"E						
		22.	24°58'29.86"N	74°40'27.02"E						
		23.	24°58'24.68"N	74°40'34.25"E						
		24.	24°58'24.91"N	74°40'35.92"E						
		25.	24°58'21.04"N	74°40'43.80"E						
		26.	24°58'0.39"N	74°40'23.62"'E						
		27.	24°57'31.40"N	74°40'10.48"E						
		28.	24°57'29.94"N	74°40'9.10"E						
		29.	24°57'34.48"N	74°39'53.20"E						
		30.	24°57'32.78"N	74°39'26.91"E						
		31.	24°57'24.84"N	74°39'5.46"E						
		32.	24°57'20.34"N	74°38'37.47"E						
		33.	24°57'21.27"N	74°38'34.40"E						
		34.	24°57'28.56"N	74°38'35.20"E						

 $\swarrow$ 

S. No.	Particulars		Detai	ls submitted by	the PP					
		35.	24°5	7'49.89''N	74°38'4	1.86"E				
		36.	24°5	7'47.01''N	74°38'5.	5.92"E				
		37.	24°5	7'48.63"N	74°38'5	7.71"E				
		38.	24°5	7'50.88"N	74°39'5	.55"E				
		39.	24°5	7'50.82"N	74°39'9	.21"E				
		40.	24°5	7'53.17"N	74°39'1	0.77"E				
		41.	24°5	7'53.43"N	74°39'1	3.24"E				
		42.	24°5	7'53.35"N	74°39'1	5.57"E				
		43.	24°5	7'56.21"N	74°39'1	8.65"E				
		44.	24°5	7'59.88"N	74°39'2	5.09"E				
		45.	24°3	58'4.03"N	74°39'2	3.47"E				
		46.	24°5	8'18.43"N	74°39'2	7.68"E				
		47.	24°5	8'23.31"N	74°39'2	0.43"E				
		48.	24°5	8'26.55"N	74°39'1	4.98"E				
g.	Total land	335.89 Ha	art:							
h.	Land acquisition details	The land is	The land is under the possession of the company							
	as per MoEF&CC O.M.									
	dated 7/10/2014			102						
i.	Existence of habitation	Plant Site:	No habitati	on exists within	the plant	site and as the				
	& involvement of R&R,	proposed e	proposed expansion will be done within the existing plant							
	11 any	premises, v	which is a	lready in posse	ession of	the company,				
		Inerefore, I	residet							
		project.								
		Study Area		CWV 1	1 4	· - )				
		• Putholi (	$\sim 0.5$ KIII III	5 w direction in	in plant s	ne)				
	Z	• Ajonya i • Biliya (~	Adjacent i	n North direction	from pla	oni piant site)				
	9	Billya (*	Aujacent I	ii Nortii directioi	i nom pia	int site).				
		There are a	pprox. 75 v	villages and 1 ci	tv in 10 k	m radius study				
	7.	area.	II · · · ·							
j.	Elevation of the project	390 m to 40	0 m above	mean sea level.						
	site	24		16						
k.	Involvement of Forest	No Forest L	and is invo	lved in the plant	site.					
	land if any.									
1.	Water body exists	Plant site: I	Putholi Nala	a (Passing throug	gh the plan	t site plant site.				
	within the project site as									
	well as study area	Study area	: Following	water body fall	within 10	km radius:				
		Water	body	Distance (k	<b>m</b> )	Direction				
		Berach Riv	ver	Adjacen	t	East				
		Gambhir N	ladi	~4.0 km		South				
		Nagdi ka N	Vala	~8.5 km		NNE				
		Canal		~8 km		WNW				
m.	Existence of ESZ / ESA	N1l.								
	/ national park / wildlife	17 D	1		•	.4. 101				
	Sanctuary / biosphere	1 / Keservec	1 Forest and	I Protected For	ests exist	within 10 km				
	alaphant reserve at if	radius of the	e plant site.							
	elephant reserve etc. If									

S.	Particulars	Details submitted by the PP
No.		
	any within the study	
	area	
n.	Project cost	The existing capital cost of the project was Rs. 429057 Lakhs.
		The capital cost for the proposed expansion project is Rs. 786
		Crores.
0.	EMP cost	The capital cost for environmental protection measures is
		proposed as Rs. 120.05 Crores. The annual recurring cost towards
		the environmental protection measures is proposed as Rs. 15.14
		Crores/ annum.
p.	Employment	The employment generation from the proposed project is 360
	opportunity	people.
q.	Water and Power	Existing Water requirement for the project is 38570 KLD. After
-	requirement	the expansion project, 500 KLD additional water will be required
	-	for the Minor Metal Unit which will be sourced from RO
		permeate water from ETP.
		Evicting Total Device requirement of the Chanderive Load Zing
		Existing Total Power requirement of the Chanderlya Lead Zinc
	200	Sincher Complex is 200 WW. 48 MW additional power will be
		required for the expansion project, which will be fulfilled from
		the existing sources and Proposed CPP expansion from 254 MW
		to 290 MW and BPIG

# Unit configuration and capacity:

Unit configuration and capacity:											
S.	Name of the facility	Unit	Exi	sting	Addit	tional	Total after	expansion	Remarks		
No			Capacity	Configura tion	Capacity	Configura tion	Capacity	Configur ation			
Lead	l Zinc Smelter Unit (Pyro Plan	t)									
1	Refined Lead	TPA	35,000	1 x	1,05,000	1x 140,000	140000	1 x	Change in		
2	Refined Zinc	ТРА	105,000	140,000	35,000	, e	[Total Metal Basis]	140,000	product mix*		
	Total	TPA	140,000		140,000 (Change in product mix only)	Rion P	140,000 (Change in product mix only)				
3	Captive Power Plant	MW	90	1 x 90	NIL		90		Not installed		
4	DG	KVA	NIL	NIL	2875	1x625 1x1500 1x750	2875	1x625 1x1500 1x750	To be added		
5	Zn-Cd Alloy / Cadmium Metal (on equivalent cadmium basis) (By-product)	TPA	375	1 x 375	222	1 x 222	597	1 x 597	Increase in productio n capacity		
6	Copper Matte / Copper Metal (on equivalent copper basis) (By-product)	TPA	2100	1 x 2100	1238	1 x 1238	3338	1 x 3338	Increase in productio n capacity		
7	Silver (on equivalent silver basis) (By-product)	TPA	74	1 x 74	728.29	1 x 728.29	802.29	1 x 802.29	Increase in productio n capacity		

S.	Name of the facility	Unit	Exi	sting	Addit	tional	Total after	expansion	Remarks
No			Capacity	Configura tion	Capacity	Configura tion	Capacity	Configur ation	
8	Sulphuric Acid (By-product)	TPA	1,76,000	1 x 1,76,000	47,505	1 x 47,505	2,23,505	1 x 2,23,505	Increase in productio n capacity
9	Antimony Slag/Antimony Trioxide(Sb2O3) (on equivalent Antimony basis) (By-product)	TPA	NIL	NIL	992	1 x. 992	992	1 x 992	To be added
10	Lead Oxide/ Concentrate (by products)	TPA	NIL	NIL	20,000	1 x 20,000	20,000	1 x 20,000	To be added
11	Calomel/Mercury Sludge (on equivalent mercury basis) (By-product)	TPA	NIL	NIL	14.8	1 x 14.8	14.8	1 x 14.8	To be added
Hydi	ro-I + Hydro-II Zinc Smelter U	nit & C	aptive Pow	er Plant (Co	mbined Cap	acity)			
1.	Zinc (Hydro- I + II) / Zinc Alloys and its Compounds	TPA	5,04,000	2 x 2,52,000	1,26,000	1 x 1,26,000	6,30,000	2 x 2,52,000 1 x	Increase in Productio
			pla:		Pla	2		1,26,000	n Capacity
Hydro I								1	
2.	Captive Power Plant	MW	154	2x77	36	2x18	190	2x95	Increase in
									Productio n
									Capacity
3.	DG	KVA	1750	1 x 750 1 x 1000	NIL	Nil	1750	1 x 750 1 x 1000	No change
4.	WHRB	MW	9.4	1 x 9.4	Nil	Nil	9.4	1 x 9.4	No change
5.	Back Pressure Turbine Generator	MW	NIL	Nil	6	1 x 6	6	1 x 6	To be added
6.	DG FGD	KVA	NIL	Nil	500	1 x 500	500	1 x 500	To be added
7.	Cadmium Metal/ Cadmium Sponge (equivalent metal) (By-product)	TPA	680	1 x 680	NIL	NIL	680	1 x 680	No change
8.	Copper Cement/ Copper sulphate/ Copper matte/ (equivalent metal) (By product)	TPA	510	1 x 510	NIL She is	NIL	510	1 x 510	No change
9.	Low grade lead concentrate (By-product)	TPA	30,000	1 x 30, 000	NIL	NIL	30,000	1 x 30,000	No change
10.	Sulphuric Acid (By-product)	TPA	3,07,774	1 x 3,07,774	Nil	Nil	3,07,774	1 x 3,07,774	No change
11.	Calomel (Mercury Chloride) (By-product)	TPA	20	1 x 20	NIL	NIL	20	1 x 20	No change
12.	Sodium Chloride (By- product)	TPA	250	1 x 250	Nil	Nil	250	1 x 250	No change
13.	Sodium Sulphate (By- product)	TPA	1250	1* 1250	Nil	Nil	1250	1x1250	No change
				Hydro II	[			1	
1.	Captive Power Plant	MW	100	1 x 100	NIL	Nil	100	1 x 100	No Change
2.	DG	KVĀ	12,515	1 x 625 2 x 1250 1 x 125 2 x 9265	750	1 x 750	13,265	$ \begin{array}{c} 1 \times 6\overline{25} \\ 2 \times \\ 1250 \\ 1 \times 125 \end{array} $	Additiona l DG to be installed
				2/					

Page 6 of 22

S.	Name of the facility	Unit	Exi	sting	Addit	tional	Total after	Total after expansion	
No			Capacity	Configura tion	Capacity	Configura tion	Capacity	Configur ation	
								2 x 9265 1 x 750	
3.	WHRB	MW	25.3	1 x 4.3 1 x 21	1	1 x 1 -	26.3	1 x 5.3 1 x 21	Increase in power generatio n
4.	Cadmium Metal/ Cadmium Sponge (equivalent metal) (By-product)	TPA	680	1 x 680	NIL	NIL	680	1 x 680	No change
5.	Copper Cement/ Copper sulphate/ Copper matte/ (equivalent metal) (By product)	TPA	510	1 x 510	NIL	NIL	510	1 x 510	No change
6.	Lead Silver Cake (By- product)	TPA	16000	1 x 16000	16000	1 x 16000	32000	1 x 32000	Increase in productio n capacity
7.	Copper Speiss/ Copper Residue (By-product)	TPA	700	1 x 700	500	1 x 500	1200	1 x 1200	Increase in productio n capacity
8.	Sulphuric Acid (By-product)	TPA	307774	1 x 307774	Nil	Nil	307774	1 x 307774	No change
9.	Calomel (Mercury Chloride) (By-product)	TPA	20	1 x 20	NIL	NIL	20	1 x 20	No change
10.	Sodium Chloride (By- product)	TPA	250	1 x 250	Nil	Nil	250	1 x 250	No change
11.	Sodium Sulphate (By- product)	TPA	1250	1 x 1250	Nil	Nil	1250	1 x 1250	No change
Ausr	nelt Lead Smelter Plant		18N					1	U
1.	Lead Z	TPA	60,000	1 x 60,000	NIL	NIL	60,000	1 x 60,000	No Change
2.	Sulphuric Acid (By-product)	TPA	50500	1 x 50500	NIL	NIL	50500	1 x 50500	No Change
3.	Copper Sulphate (By-product)	TPA	7920	1 x 7920	NIL	NIL	7920	1 x 7920	No Change
4.	Silver (on equivalent silver basis) (By-product)	TPA	94.71	1 x 94.71	NIL	NIL	94.71	1 x 94.71	No Change
5.	Zinc Rich Dust (By-product)	TPA	6600	1 x 6600	NIL	NIL	6600	1 x 6600	No Change
Mine	or Metal Recovery Unit	-	-	-		-		-	
1.	Lead Bullion / Lead Silver Cake / Lead Cake/Low Grade Lead Cake / Low Grade Lead Material (on Equivalent metal basis)	TPA	NIL	NIL	8873	1 x 8873	8873	1 x 8873	To be added
2.	Cadmium Sponge/ Cadmium Metal/ Low Grade Cadmium (on Equivalent metal basis)	TPA	NIL	NIL	3050	1 x 3050	3050	1 x 3050	To be added
3.	Cobalt / Cobalt Concentrate (on Equivalent metal basis)	TPA	NIL	NIL	50	1 x 50	50	1 x 50	To be added
4.	Ni cake / Ni Compounds (on Equivalent metal basis)	TPA	NIL	NIL	30	1 x 30	30	1 x 30	To be added

S.	Name of the facility	Unit	Exis	sting	Additional		Total after expansion		Remarks
No			Capacity	Configura tion	Capacity	Configura tion	Capacity	Configur ation	
5.	Zn So4 Solution (on Equivalent metal basis)	TPA	NIL	NIL	2781	1 x 2781	2781	1 x 2781	To be added
6.	CuSO4 Solution/ Copper Cement/ CU Matte (on Equivalent metal basis)	TPA	NIL	NIL	2436	1 x 2436	2436	1 x 2436	To be added
Not Zin	e: *In Pyro Plant, Change in Pr c or Product Mix of both Metals)	oduct M	lix has been	proposed on	total Metal b	oasis i.e. 1,40	,000 TPA (Re	efined Lead	or Refined

- 6. The EAC, in its meeting held during <u>21<sup>st</sup>-23<sup>rd</sup> March, 2023</u>, inter-alia, deliberated the following:
  i. The instant proposal is for expansion within the existing Chanderiya Lead Zinc Smelter Complex [Expansion in Hydro Smelter Unit by adding 1 Induction Furnace, 1 Slab Casting Line & Integration of RZO Unit in Hydro-II, Change in Product Mix in Pyro Unit on total metal basis & Installation of 1 Lead Refinery, Expansion of CPP through Modernization and Installation of 1 Back Pressure Turbine Generator, Recovery of Minor Metals & Installation of 5 DG Sets].
  - ii. The existing project was accorded Concurrence letter initially for Pyro Plant vide no. J-11013/29/92-EI dated 03/06/1983; Production capacity of Pyro Plant was increased from 105000 TPA (Zn - 70,000 TPA + Pb - 35,000 TPA) to 140000 TPA (Zn - 105000 TPA + Pb - 35000 TPA) vide NOC obtained from RSPCB vide no. F.12 (Chittor-60)RPCB/Gr. III/19418 dated 05/03/2004. Environmental Clearance for {Hydro Plant} Zinc Smelter I (1,70,000 TPA Zinc Production) & CPP (154MW) vide F.No.J-11011/158/2003-IA.II(I) 31/03/2004; Environmental Clearance for Ausmelt Lead Smelter Plant (60,000 TPA) vide F.No.J-11011/17/2005-IA.II (I) 3/8/2005; Environmental Clearance for {Hydro Plant } Zinc Smelter II (2,10000 TPA) and expansion of {Hydro Plant } Zinc Smelter I (From 1,70,000 TPA to 2,10,000 TPA) vide no J-11011/279/2006-IA.II(I) dated 06/12/2006; Environmental Clearance for Inclusion of Fumer Plant within the {Hydro Plant } Zinc Smelter II vide F.No.J-11011/279/2006-IA.II(I) 5/10/2015; Environment Clearance for Capacity Expansion in Hydro I & Hydro II Zinc Smelters (from 4,20,000 TPA to 5,04,000 TPA) through debottlenecking vide letter no. J-11011/279/2006-IA.II (I) dated 14/10/2020. Current CTO for Pyro Plant has been accorded by Rajasthan State Pollution Control Board (RSPCB) vide Order no. 2020-2021 / HDF /3070 dated 08/06/2020 (valid upto 29/02/2024). CTO for Hydro-I Plant and CPP (154 MW) has been accorded by RSPCB vide Order No. 2019-2020/HDF/2859 dated 16/01/2020 (valid upto 31/08/2023). CTO for Hydro- II Plant & CPP (100 MW) has been accorded by RSPCB vide Order no. 2019-2020/HDF/2818 dated 18/12/2019 (valid upto 31/01/2024). CTO for Fumer Plant within existing Hydro -II plant was accorded by RSPCB vide Order no. 2020-2021/HDF/3009 dated 08/05/2020 (valid upto 31/03/2025). CTO for Ausmelt Lead Plant was accorded from RSPCB vide Order no. 2020-2021/HDF/3069 dated 05/06/2020 (valid upto 31/08/2023). CTO for installation of 2 D.G. Sets (2 x 8MW) was obtained from RSPCB vide Order no. 2020-2021 / HDF / 3068 dated 05/06/2020 (valid upto 30/04/2024). CTO for Township was obtained vide Order no. 2018-2019/CPM/5201 dated 23/05/2018. The details of EC and CTO are summarised in a tabulated form at para 25.1.7 above.
- iii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with the EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- iv. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the reports. If any part of data/information submitted is found



to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

- v. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- vi. Total plant area of Chanderiya Lead Zinc Smelter Complex is 335.89 ha and is under the possession of M/s. Hindustan Zinc Ltd. The entire land is converted for Industrial use.
- vii. The nearest habitation to plant are Putholi (~0.5 km in SW), Ajoliya Ka Khera (~ 1 km in West) and Biliya (~ Adjacent in North) from plant site. There are approx. 75 villages and 1 city in 10 km radius study area. The EAC deliberated on the Environmental safeguard measures submitted to minimize the impact on the nearest habitation from the plant site and found it satisfactory.
- viii. The existing water requirement for the project is 38570 KLD. After the expansion project, 500 KLD additional water will be required for the Minor Metal Unit which will be sourced from RO permeate water from ETP. Therefore, no additional Fresh Water will be required for the proposed expansion project. The water is being / will be sourced from Gosunda Dam (Fresh Water) & Proposed STP Chittorgarh/ Udaipur/ other proposed STP's (Recycled Water). The EAC is of the opinion that no ground water abstraction shall be permitted for the existing and proposed expansion project and PP shall maximize the usage of treated water. In this regard, PP shall complete all the tasks w.r.t. usage of STP treated water and accordingly layout the pipeline connection and other related activities for supply of treated water for this expansion project, as the usage of treated water is environmentally and sustainable best practice.
- ix. Putholi Nala is passing through the plant site and Berach River is flowing adjacent to the project site in the East direction. Also, Gambhir Nadi (~4.0 km, S), Nagdi ka Nala (~8.5 km, NNE) and Canal (~8 km, WNW) are flowing within 10 Km. radius of the plant site. EAC noted that a NOC letter has been issued by Executive Engineer Water Resource Department vide letter dated 16.01.2023 also stating that Berach river passes in the east direction approximately 0.5 km from the Chanderiya Lead Zinc Smelter, whose water has not reached the Chanderiya Lead Zinc Smelter complex in last 25 years. The EAC further deliberated on the submitted Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple erosion control measures and is of the view that the plan shall be strictly implemented for safeguarding the water bodies.
- x. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC also deliberated on mineral composition of PM10 and also the mitigation measures that will be undertaken to minimise the same and is of the opinion that proposed mitigation measures shall be strictly implemented.
- xi. The EAC noted that existing greenbelt has already been developed in ~125.02 ha which is about ~37.21 % of the total project area 335.89 ha with total saplings of 1,34,800 Trees. The greenbelt density is less than 2500/ha and PP will ensure to maintain and enhance same by doing gap plantation and using technique like Miyawaki to achieve plantation density @2500/ha for proposed expansion. Total 1,79,450 numbers of trees will be planted and nurtured within the existing plant premises in 3 years. The EAC emphasised that PP shall implement a stringent greenbelt development plan in consultation with Arid Forest Research Institute, Jodhpur.
- xii. The EAC noted that Six schedule I species i.e., Panthera pardus (Leopard), Prionailurus rubiginosus (Rusty Spotted Cat), Gyps bengalensis (White-rumped Vulture), Falco jugger (Laggar Falcon), Pavo cristatus (Indian Peafowl), Varanus bengalensis (Bengal Monitor lizard)



recorded in the study area; which are categorized as Schedule - I according to (IWPA) Indian Wildlife Protection Act' 1972. Wildlife conservation plan for the Schedule I species has been prepared and submitted to DCF, Chittorgarh for authentication from CWW, Chittorgarh vide letter no. HZL/CLZS/43/2022-23 dated 10.11.2022. The same has been forwarded to Chief Conservator of Forest, Udaipur vide Letter No. F()FCA/DFO/2022-23/1100 dated 10.02.2023. The approval of the WLCP is under process with the State Department. The total budget allocated for implementation of Wildlife Conservation plan is Rs. 7.86 Crores for the implementation period of 10 years.

- xiii. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- The EAC noted that a Show cause Notice was issued to the M/s. Hindustan Zinc Ltd. by xiv. MOEFCC, New Delhi vide letter dated 06/04/2021 under Section 5 of Environment (Protection) Act, 1986 for violation of provisions of under EIA Notification, 2006. Reply of the same was submitted to MoEFCC, New Delhi vide letter dated 19/04/2021. After detailed deliberation as per the personal hearing held on 05/08/2021, the Show cause Notice has been withdrawn by MoEFCC, New Delhi vide letter dated 31/08/2021. M/s. Hindustan Zinc Ltd. further reported about an accident that took place on 12th August 2022 in the plant premises, when the Sulphuric acid tank ST-02 with a capacity of 5000 Mt at CLZS, Hydro 2 unit suddenly collapsed resulting in acid gushing out of the tank and affecting people who were nearby and causing large scale surrounding property damage as well. On the basis of monitoring conducted by the Regional Office, MoEF&CC on 27.07.2022 and subsequent submission of its report vide letter dated 27.08.2022 to the Ministry, MoEF&CC observed the non-compliance w.r.t. Contingency & disaster plans." In view of the same, Ministry issued a letter to M/s. Hindustan Zinc Ltd. on 07.10.2022 seeking clarification for non-compliances, ATR and action plan on non complied conditions to which PP submitted the pointwise reply to MoEF&CC, New Delhi on 04.11.2022.
- xv. The EAC deliberated on the PH issues raised during the earlier EC and the status of implementation of the action plan of the commitment made by the PP during the existing ECs and found it satisfactory.
- xvi. The Committee deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing for the proposed propoject and found it satisfactory. The EAC also took into account the Undertaking dated 22.03.2023 submitted for adoption of 5 No. of Villages Ajoliya Ka Khera, Biliya, Moonga Ka Khera Putholi and Nagri.
- xvii. The Committee deliberated upon the certified compliance report of IRO along with action taken on the observations of IRO, MoEFCC and the closure report of IRO and found it satisfactory.
- xviii. The EAC deliberated on the pointwise reply presented by the PP of the two representations received regarding the project dated 20.01.2023 & 19.03.2023 and found it satisfactory.
- xix. The Committee deliberated upon the reply of the ADS submitted by project proponent and found it satisfactory.
- xx. The Committee deliberated upon the written submission of project proponent and found it satisfactory.
- xxi. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- xxii. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be

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followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

7. The EAC (Industry-1 Sector), in its 25<sup>th</sup> meeting held during 21<sup>st</sup> - 23<sup>rd</sup> March, 2023, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance subject to stipulation of specific and general conditions as detailed in the point below.

8. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant **Environment Clearance for instant proposal of M/s Hindustan Zinc Ltd** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

## A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. The water requirement of 38570 KLD (existing) shall be sourced from Gosunda Dam (Fresh Water) & Proposed STP Chittorgarh/ Udaipur/ other proposed STP's (Recycled Water) and 500 KLD additional water for the Minor Metal Unit shall be sourced from RO permeate water from ETP. No ground water abstraction is permitted. PP shall maximize the usage of treated water
- v. Following additional arrangements to control fugitive dust shall be provided:
  - a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
  - b. Proper covered vehicle shall be used while transport of materials.
  - c. Wheel Washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- vi. All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to proposed project as per the action plan submitted.
- vii. All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.



- viii. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
  - ix. Particulate matter emission from stacks shall be less than 30 mg/Nm<sup>3</sup>. Action plan submitted to limit the dust emission shall be strictly implemented. The PP shall periodically conduct Mineralogical composition study of the PM10 and shall ensure the constituents are well within the permissible limits. The reports shall be submitted to MoEFCC and uploaded in their six-monthly EC compliance report.
  - x. CEMS shall be provided on all process stacks and the signal shall be received in plant control room for central control of APCDs installed in the plant.
- xi. Risk assessment and Disaster Management Plan shall be strictly implemented as per the action plan submitted to the Ministry.
- xii.  $SO_2$  emissions from  $H_2SO_4$  plant shall be less than 1 kg/t of acid.
- xiii. Acid mist from H<sub>2</sub>SO<sub>4</sub> plant shall be less than 30 mg/Nm<sup>3</sup>.
- xiv. Particulate matter levels from the stacks shall be less than 30 mg/Nm<sup>3</sup>.
- xv. 100% Solid waste generated shall be utilised/ properly disposed. The PP shall explore and implement the principles of 'Circular Economy'. The PP shall periodically conduct study for the presence of Heavy metals/ metaloids contamination and leaching in the soil within 2 kms of the Project and shall take all remedial measures in this respect. The reports shall be submitted to MoEFCC and uploaded in their six-monthly EC compliance report.
- xvi. Putholi Nala is passing through the plant site and Berach River is flwoing adjacent to the project site in the East direction. Also, Gambhir Nadi(~4.0 km, S), Nagdi ka Nala (~8.5 km, NNE) and Canal (~8 km, WNW) are flowing within 10 Km. radius of the plant site. As submitted, a robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be strictly implemented.
- xvii. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- xviii. Existing ETP shall be strengthened to recycle additional effluent by installing MEE for RO rejects.
- xix. The company shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- xx. The nearest habitation to plant are Putholi (~0.5 km in SW), Ajoliya Ka Khera (~ 1 km in West) and Biliya (~ Adjacent in North) from plant site. There are approx. 75 villages and 1 city in 10 km radius study area. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include this locations in its environmental monitoring programme.
- xxi. Solar Energy shall be generated at the roof tops of the plant and office buildings.
- xxii. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

- xxiii. The PP shall implement the recommendations of the root cause analysis report on accident occurred in the Unit to prevent the future accident in the Industry.
- xxiv. Three tier Green Belt shall be developed in at least 37% of the project area and shall be completed by 2023-24 all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Gap filling shall be undertaken and survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Further, greenbelt shall also be developed in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield to act as green barrier for air pollution & noise levels towards the Putholi, Ajoliya Ka Khera and Biliya villages inside the plant premises. All the plantation work should be done in consultation with Arid Forest Research Institute, Jodhpur.Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- xxv. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- xxvi. Air Cooled condensers shall be used in the captive power plant.
- xxvii. During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
- xxviii. As committed by the PP to adopt the five revenue villages namely Ajolia Ka Khera, Biliya, Moonga Ka Khera, Nagri and Putholi, as a part of model village development plan, project proponent shall strictly implement the submitted plan for socio-economic development to develop them into model villages. PP shall extend the occupational health monitoring to the villagers on a random basis to establish any health disorders due to the project's operations. PP shall also construct and maintain Rain water harvesting pits in the adjacent village and school. The PP shall develop avenue plantation along the roads, villages and schools and other suitable places.
  - xxix. All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
  - xxx. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
  - xxxi. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A

report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.

xxxii. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

## B. <u>General conditions:</u>

#### I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

### II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as four Continuous Ambient Air Quality Station (CAAQS) one within and three outside the pant area at an angle of 120° each for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emission to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vi. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.

- vii. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- viii. Provide covered sheds for raw materials like coal, etc.
- ix. Practice use if low-sulphur tars for baking anodes.
- x. Plant internal roads shall be concreted and sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly. shall be used to regularly clean the roads.
- xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

## **III.** Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (preand post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emission to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- v. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- vi. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.

### IV. Noise monitoring and prevention

- Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- The ambient noise levels should conform to the standards prescribed under E(P) A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

### V. Energy Conservation measures

- i. The project proponent shall provide waste ehat recovery system (pre-heating of combustion air) at the flue gases.
- ii. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.

#### VI. Waste management

- i. 1000% utilisation of fly ash shall be ensured. All the fly ash shall be provided to cement and cement brick manufacturers for further utilisation and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused in melting Furnaces.
- iii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & transboundary Movement) Rules, 2016 and amendment thereof.
- iv. Kitchen waste shall be composted or converted to biogas for further use.

### VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames", when PP comes for EC proposal. This study shall be formulated keeping in view of India's Net-zero commitment at the COP-26 Climate Summit.

### VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE).
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

#### IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

### X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

- ix. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

9. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

10. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

11. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

12. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

13. This issues with approval of the competent authority.

(Dr. R. B. Lal) Scientist 'F'/Director Tel: 011-20819346 Email-rb.lal@nic.in

## Encl. as above at Annexure -I

### Copy to: -

- 1. The Principal Secretary, Environment Department, Government of Rajasthan, Secretariat, Jaipur (Rajasthan).
- 2. The Principal Secretary, Forests Department, Government of Rajasthan, Secretariat, Jaipur (Rajasthan).
- 3. The Principal Secretary, Revenue Department, Government of Rajasthan, Secretariat, Jaipur (Rajasthan).

- 4. Principal Chief Conservator of Forests, (HOFF), Aranya Bhawan, MG Road, Jhalana Institutional Area, Jaipur, Rajasthan 302 004.
- 5. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
- The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur, A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan.
- 7. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi 32
- 8. The Member Secretary, Rajasthan State Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur (Rajasthan).
- 9. The Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- 10. The Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.

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- 11. The District Collector, Chittorgarh, Rajasthan.
- 12. Guard File/Monitoring File/ Parivesh Portal /Record File.

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(Dr. R. B. Lal) Scientist 'F'/Director Tel: 011-20819346 Email-rb.lal@nic.in



Action plan as per MoEF&CC O.M. F.No. 22-65/2017-IA.III, dated 30/09/2020: M/s Hindustan Zinc Ltd. has earmarked the budget for socio economic development plan including development of 5 model villages as Rs. 17.5 Crores. Out of which, Rs. 6.05 Crores has been allocated for implementation of the commitments made during Public Hearing and Rs. 11.46 Crores for Village Adoption program for the Ajoliya ka Khera, Biliya, Moonga ka Khera, Putholi and Nagri villages in next 3 years.

					Unit of Me	asurement			Tentati
S. N 0.	Concerns raised during the Public	Physical activity to be done	1 <sup>st</sup> Y	ear	2 <sup>nd</sup> Y	ear	3 <sup>rd</sup> Y	/ear	ve Budget (Rs. in lacs)
	Hearing		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
		Job oriented skills development training to unemployed youth	150 trainees/o perationa l villages		150 trainees/o perationa l villages	35	150 trainees/o perationa l villages	35	105
1	Skill Development	Coaching to youths for government exams/services	350 trainees/ Covering 3 villages	15	50 trainees/ Covering 3 villages	15	50 trainees/ Covering 3 villages	15	45
		Capacity building of farmers to reduce input cost and enhance income/productivity	farmers/ covering villages		farmers/ covering villages	-	farmers/ covering villages	-	0
		Capacity Building and livelihood support to women	women/v illages		women/v illages		women/v illages	-	0
		Multipurpose Community Hall	Bhavanip ura	35	-		Anwalhe ad	35	70
		Solar Street Lights	50 lights	10	50 lights	10	50 lights	10	30
		Construction of CC roads	Ganesh Pura	100	Suwania	80	Medikher a	50	230
2	Rural Infrastructure	Creating Model Anganwadi	Bhvanipu ra	3	Medikher a	4			7
	Development	Construction Toilets in Public Places	tecto	: <b>C</b> C	ne is	-	-	-	0
		Cremation area development	Bhavanip ura	15	Suwania	15	-	-	30
		Repairing of primary health centre/sub centre	-	0	-	0	-	0	0
3	Ground Water Conservation	RooftopRainwaterharvesting System	-	-	Anwalhe da	5	-	-	5
4	Safe Drinking Water	Drinking water supply/Installation RO units	Anwalhe da	4			Suwaina	4	8
5	Education	Strengthening of school infrastructure to create model school	Bhavanip ura	30			Suwania	30	60
6	Health	Health Camps							0
7	Afforestation	Plantation	400 trees with tree guards	5	400 trees with tree guards	5	400 trees with tree guards	5	15
Tota	al	1		252		169	Ŭ	184	605

## A) Plan for implementation of the commitments made during Public Hearing:



					Unit of Mea	surement			Tentative
S. No	Concerns raised during the	ns l the c to be done g	1 <sup>st</sup> Y	/ear	2 <sup>nd</sup> Y	/ear	3 <sup>rd</sup>	Year	Budget (Rs. in lacs)
110.	Public Hearing		Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
	Skill Development	Job oriented skills development training to unemployed youth	50 trainees/C overing 5 villages	25	50 trainees/C overing 5 villages	25	50 trainees/ Covering 5 villages	25	75
		Coaching to youths for government exams/services	50 trainees/C overing 5 villages	10	50 trainees/C overing 5 villages	10	50 trainees/ Covering 5 villages	10	30
1		Capacity building of farmers to reduce input cost and enhance income/producti vity	150 farmers/ covering 5 villages		150 farmers/c overing 5 villages	15	150 farmers/c overing 5 villages	15	45
		Capacity Building and livelihood support to women	30 women/ 5 villages	40	30 women/ 5 villages	40	30 women/ 5 villages	40	120
		Multipurpose Community Hall	Ajolia ka kheda	35	Nagri	35	Biliya	35	105
		Solar Street Lights	50 lights	10	50	10	50	10	30
		Construction of CC roads	Ajol <mark>iya ka</mark> khera & Biliya	180	Moonga ka khera Nagri	130	Ajoliya ka khera	50	360
2	Rural Infrastructure	Creating Model Anganwadi	Moonga Khera Biliya	8	Biliya Ajoliya ka Khera	9	Ajoliya ka Khera & Nagri	10	27
	Development	Construction Toilets in Public Places	Ajoliya ka Khera	12	Classi	5 Pr			12
		Cremation area development	Ajoliya ka Khera & Putholi	30	Biliya	15	Ajoliya ka Khera	15	60
		Repairing of primary health centre/sub centre	Moonga ka khera / Putholi	10					10
3	Ground Water Conservation	Rooftop Rainwater harvesting System	Ajoliya ka Khera School	5	Biliya Nagri School	11	Ajoliya ka Khera Putholi School	12	28
4	Safe Drinking Water	Installation RO units School	Ajolia ka kheda School	3	Biliya School	3	Moonga ka kheda Putholi School	7	13
5	Education	Strengthening of school infrastructure to	Moonga ka kheda	40	Biliya Nagri	70	Ajolia ka kheda	40	150

## **<u>B</u>**) Proposed Action plan, Budget along with timeline for Village Adoption:



	Concerns raised during the Public Hearing	Physical activity to be done			Unit of Mea	surement			Tentative
S. No.			1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		Budget (Rs. in lacs)
			Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	Location / Area	Budget in Lakhs	
		create model school							
6	Health	Health Camps	5 camps	6	5 camps	6	5 camps	6	18
7	Afforestation	Plantation	1000 trees with tree guards	19	1000 trees with tree guards	21	1000 trees with tree guards	23	39
				448		400		298	1146

#### Model Village Development Plan:

Company is proposing to adopt the five revenue villages as a part of model village development plan namely Ajolia Ka Khera, Biliya, Moonga Ka Khera, Nagri and Putholi. Undertaking for adoption of 5 No. of Villages is submitted vide letter dated 22.03.2023. The objective of Model Village Development Plan is to develop the following identified villages in an integrated manner. This would include economic development, infrastructure development and other aspects of human development i.e., education, health, drinking water supply, etc., besides access to credit facilities through financial institutions.





