

transforming elements Ref: HZL/RA/ENV/MoEF&CC/2020-21/



May 30, 2020

To,

The Director Govt. of India Ministry of Environment, Forest and Climate Change Regional Office, Kendriya Bhawan, 5th floor, Sector- H, Aliganj LUCKNOW (UP) -260224

Six monthly environmental compliance reports from October 2019 to March 2020. Sub:

Ref	Ref : Environment Clearances and Amendments	
1.	Environment Clearance vide No. : J-11015/267/2008-IA.II (M) Dtd. 11.12.2009.	
2.	Environment Clearance Amendment vide No. J-11015/267/2008-IA.II (M) dtd. 05.03.2012	
3.	Environment Clearance Amendment vide No. J-11015/267/2008-IA.II (M) dtd. 22.08.2014	
4.	Environment Clearance Amendment vide No. J-11015/267/2008-IA.II (M) dtd. 12.12.2014	
5.	Environment Clearance Amendment vide No. J-11015/267/2008-IA.II (M) dtd. 28.12. 2015	
6.	Environment Clearance Amendment vide No. J-11015/267/2008-IA.II (M) dtd. 28.02. 2020	

Dear Sir / Madam,

Please find enclosed herewith the compliance status report of above referred Environmental Clearance granted by the Ministry of Environment, Forest and Climate Change for the period of October 2019 to March 2020 along with soft copy in a CD.

Hope you find this in order.

Thanking you,

Your faithfully

stan Zinc Limited Managucha Mine Director Aguith

PO- Agucha Dist. - Bhilwara (Raj.)

Cc to:

1. In-Charge (Zonal office) Central Pollution Control Board Zonal Office (Central)3rd Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal - 462 003 (MP)

- 2. Member Secretary Rajasthan Pollution Control Board 4 Institutional Area, Jhalana doogri Jaipur (Raj) -302004
- 3. The Regional officer Rajasthan Pollution Control Board 18, Azad Nagar, Pannadhay Circle Mining Engineer Office Road (Near Telephone Exchange) Bhilwara-311001

Hindustan Zinc Limited

Rampura Agucha Mines, P.O. Agucha, Dist. Bhilwara (Rajasthan) - 311 022 M +91-9001294956-57, F +91-1483 229012 www.hzlindia.com

HINDUSTAN ZINC LIMITED RAMPURA AGUCHA MINE

MoEF Environmental Clearance for Expansion of Rampura Agucha Lead and Zinc Opencast and Underground Mining Project (from 5.00 to 6.15 mTPA) and Beneficiation Capacity of Beneficiation Plant (from 5.00 to 6.50mTPA)

Env Clearance Vide No. J-11015/267/2008-IA.II (M) Dtd 11.12.2009

Env C	learance Vide No. J-11015/267/2008-IA.II (M) Dtd	11.12.2009
S. No.	Condition	Status
	A. Specific Conditions	
İ	The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein	Consent to establish obtained from RSPCB. Consent to Operate granted by RSPCB vide File F(Mines)/Bhilwara(Hurda)/12(1)/201 5-2016/1229-1233 dated 25/06/2019 for mining activity. RSPCB. Consent to Operate granted by RSPCB vide File F(CPM)/Bhilwara(Hurda)/2(1)/2019-2020/2498-2500 dated 22/10/2019 for Beneficiation plant , and the conditions stipulated are implemented.
ii	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	Land purchased within Mine Lease area and converted in name of HZL for mining.
iii	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.	No natural watercourse or water resources are obstructed due to mining operations.
iv	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	Top soil utilized on waste dump for its stabilization and plantation.
V	The over burden generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. The maximum height of the dump should not exceed 100m having 5 terraces as recommended by the Central Institute of Mining and Fuel Research, Dhanbad. The recommendations made by the Central Institute of Mining and Fuel Research, Dhanbad shall be effectively implemented. The over burden dump shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis	Amendment in this condition was granted in EC vide letter No J-11015/267/ 2008-I-A.II (M) dated 22 nd August, 2014. The maximum height of the dump shall not exceed 140 m (in two lifts of 20m each). Waste dump vegetated fase manner. Waste dump are covered by applicable of geotextiles.
vi	The void left unfilled in an area of 25 ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler. Peripheral fencing	Will be complied during the mine closure.

	shall be serviced and alcoration are serviced and	
vii	shall be carried out along the excavated area. Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working and over burden dump. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for both mine pit and over burden dump and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular	Garland drain of adequate size is constructed along the waste dump toe & mining pit, along with siltation pond that provides adequate retention time for settling of silts and rain water collection lined sumps of about 8.5 lakh CuM. The water collected is utilized for watering the mine area, roads, green belt development etc Annexure –VIII
viii	intervals. Dimension of the retaining wall at the toe of dump and OB benches within the mine to check run-off and siltation should be based on the rain fall data.	The retaining wall at the toe of the OB dump is constructed along with garland drain. Annexure VIII
ix	Regular monitoring of subsidence movement on the surface over working area and impact on water bodies/vegetation/ structures/ surrounding shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.	A comprehensive assessment and monitoring of subsidence movement on the surface over working area is done by a dedicated team comprising of Rock mechanic engineers. There has been no subsidence or movement observed.
х	All the mine entries shall be above the highest flood level to avoid any anticipated flooding of mine from the surface water during the rainy season	The underground mine opening is at 392 mRL against highest flood level at Agucha reservoir of 391 mRL. Further, A peripheral bund is constructed around the mine pit for protection of the mine from flooding due to rain water.
xi	In areas where subsidence is anticipated in shallow mineral occurrence, such areas be identified and provided with garland drains to ensure draining of water and avoid ingress of the same in to the underground mine.	No subsidence is anticipated in the proposed area. Garland drain is already constructed as a safety measure to avoid ingress of water into underground mining.
xii	The project authorities shall check the possibility of existence of fault(s) before deciding about the thickness of safe barrier required to be maintained between the working face and the water bodies, if any, in consultation with the Director General Mines & Safety (DGMS). Depillaring should also be carried out after taking prior approval of the DGMS.	Mining activities are carried out as per Mine plan as approved by IBM. De-pillaring, if required shall be carried out after prior approval of the DGMS.
xiii	The project proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.	Water sprinklers are installed on conveyer belts, transfer points, and conditioning of ore is done during crushing to mitigate fugitive dust. Annexure XXXII
xiv	The effluent from the ore beneficiation plant shall be	Tailings are being disposed through

	treated to conform to the prescribed standards and the tailings slurry shall be transported through a closed pipeline to the tailing dam.	closed pipeline to the earmarked Tailing dam after necessary lime treatment. Annexure XXXVI
xv	The decanted water from the tailing dam shall be recirculated and there should be zero discharge from the tailing dam. Acid mine water, if any, shall be neutralized and reused within the plant.	Tailing dam water is completely reused in process plant and zero discharge is maintained. There is no acid mine drainage occurring in the mine.
xvi	Plantation shall be raised in an area of 670.7ha including a green belt of adequate width by planting the native species around ML area, OB dump, around tailing dam, around beneficiation plant, roads etc. in consultation with the local DFO / Agriculture Department. In addition, the township area shall also be adequately planted. The density of the trees should be around 1500 plants per ha. Green belt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	Green belt developed all along the acquired mine lease area. Progressive plantation is being carried out on waste dump benches every year as per plan submitted. Till date 309.20 ha. land is under plantation. Plantation in remaining area will be completed by closure of mine. Additional plantation has been done in 37.70 ha in the township and along road sides. Annexure –IX
xvii	Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading, unloading and transfer points and other vulnerable areas. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Water sprinkling is carried out by 4 Nos. of 40 KL water sprinkler on Haul roads to mitigate air pollution in mine area. Dust extraction system and Water sprinkling nozzles are installed at the crusher, transfer points and coarse stockpiles for dust suppression. The parameters of Ambient Air quality monitored are within the prescribed norm of CPCB. Annexure-X
xviii	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Till date 3 Nos. of anicuts have been constructed for groundwater augmentation in consultation with the CGWB. 4 anicults constructed in the area under MJSA. Massive groundwater recharge work is in progress in four blocks of Bhilwara district Annexure –XI
xix	Regular monitoring of ground water level and quality shall be carried out in and around the project area (mine lease, beneficiation plant and tailing dam) by establishing a network of existing wells and installing new piezometers during the operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting	Regular groundwater monitoring is being done by piezometers and wells outside and inside the lease area. Report enclosed as Annexure -I Six monthly reports are submitted to MoEF & CPCB. Quarterly report being sent to RSPCB, CGWA and CGWB.

	depleted due to the mining activity; necessary corrective measures shall be carried out.	
XX	The project proponent shall ensure that no additional water is drawn for the expansion project. The additional requirement of water will be met out of the water saved by adopting water conservation measures.	No additional water is drawn. The additional requirement of water if any in future will be met out by water conservation measures.
xxi	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Various rainwater-harvesting measures are implemented including the construction of rainwater collection pond of about 1.5 Lakh cum in the township, collection sumps of 8.5 lakh CuM capacity to collect and reuse the rain. Annexure XII
xxii	Regular monitoring of groundwater quality around the tailing dam shall be carried out in consultation with Central Ground Water Authority and records maintained. It shall be ensured that the groundwater quality is not adversely affected due to the project	Groundwater quality is regularly monitored around the tailing dam through piezometers within ML area and wells inside as well as outside the lease area. The groundwater quality report is being submitted to MoEF, CPCB RSPCB, CGWA and CGWB on regular basis.
xxiii	Groundwater and surface water in and around the mine shall be regularly monitored at strategic locations for heavy metals such as Ni, Co, Cu, Zn and Cd. The monitoring stations shall be established in consultation with the Regional Director, Central Ground Water Board and State Pollution Control Board	Ground and surface water is regularly monitoring for heavy metals. Report enclosed as in point no xix.
xxiv	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded	Periodic preventive maintenance of vehicles is part of our operations. All the trucks are covered with tarpaulin while transportation of concentrates to the smelters and no overloading is allowed. Annexure XIII
xxv	Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented	Blasting operation is carried out with various mitigation measures as per DGMS guidelines to ensure the fly rocks are arrested. The vibrations monitored are well within the prescribed limits by DGMS.
xxvi	Drills shall either be operated with dust extractors or equipped with water injection system	Wet drilling system is adopted.
Xxvii	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Lucknow	Noted. The land use & land cover change study carried out in 2018. Copy already submitted on 28/05/2018. Annexure-XIV
xxviii	The tailing dam shall be lined by LDPE lining on the sides as the height of the dam is raised. The ultimate height of the dam shall be maintained to 51m and provided with garland drains. The disaster management plan for tailing dam shall be prepared and implemented	The sides of the tailing dam are lined with HDPE. The present height of tailing dam is 51 meter. Garland drains are constructed around the tailing pond with pumping arrangement to collect any seepage and rainwater runoff back to tailing

		pond. Disaster management plan for the tailing pond is prepared and implemented. Annexure XV
xxix	The recommendations of the study report of NEERI, Nagpur on pollution vulnerability of aquifer shall be effectively implemented and action taken report submitted to the Ministry and its Regional Office, Lucknow on six monthly basis	Complied on the recommendations of NEERI i.e. network of piezometer established and report submitted on six monthly basis. Report enclosed as point no xix.
xxx	The project proponent shall regularly analyse the waste generated from the mining (at least once a year) for heavy metals such as Ni, Co, Cu, Pb, Zn and Cd and the data thus collected may be sent regularly to Ministry of Environment and Forests and its Regional Office, Lucknow. It should be ensured that the parameters conform to the prescribed norms	Being analysed and report is submitted on six montshly basis. Annexure II
xxxi	The recommendations of the study report on blood lead levels of children to monitor levels of lead in human system carried out by National Institute of Occupational Health, Ahemdabad shall be effectively implement and action taken report submitted to the Ministry and its Regional Office, Lucknow on six monthly basis.	As recommended by the NIOH, regular health checkups are carried out for the mine personnel and regular health checkup organized in nearby villages to keep a track of the health status. Annexure XX
xxxii	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly	Pre-placement medical examination and periodical medical examination of the employees are being carried out at regular interval as per the Mine Act.
xxxiii	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and the wastewater generated during mining operation	Sewage treatment plant of 425 KLD capacity in colony and 300 KLD in mine area operating efficiently. Oil & Grease Traps installed and water reused in process. Annexure XVI
xxxiv	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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	No construction labour housing is proposed in mining area. However, the sanitation and drinking water facility is provided to the workers, working at site.
XXXV	Acid mine water, if any, has to be treated and disposed of after conforming to the standard prescribed by the competent authority	No acid mine water generated & mine pit water is used in process plant.
xxxvi	The critical parameters such as RSPM (Particulate matter with size less than $10\mu m$ i.e., PM_{10} and with size less than $2.5\mu m$ i.e., $PM_{2.5}$), NOX in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically . Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II(M)	Monitoring of Ambient air at 3 locations inside mine and 3 locations outside the mine area is regularly carried out. Monitoring report is enclosed as Annexure III. Peak Particle velocity of blast vibration is being monitored for every blast & records are maintained. No effluent, treated or untreated, is discharged outside the project area as Zero discharge is maintained at all times. Monitoring

	dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance	data are displayed at Main Gate. Annexure XVII.
xxxvii	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval	A Final Mine Closure Plan along with details of Corpus Fund will be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.
	B. General Conditions	
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests	No changes in Mining technology and scope of workin.
ii	No change in the calendar plan including excavation, quantum of mineral lead and zinc ore and waste should be made	As per calendar plan
iii	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department	Noted, Plantation of natural species in consultation with local forest department is being implemented. No schedule —I animals present in core and buffer zone.
	Atleast four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than $10\mu m$ i.e., PM_{10} and with size less than $2.5\mu m$ i.e., $PM_{2.5})$ SO_2 & NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board	Six Ambient air monitoring locations, three in core zone and buffer zone each are selected in consultation with the SPCB, considering the meteorological data and the human settlements as sensitive targets. There are no ecologically sensitive targets. AAQ monitoring is carried out every fortnightly.
	Data on ambient air quality [(RSPM (Particulate matter with size less than $10\mu m$ i.e., PM_{10} and with size less than $2.5\mu m$ i.e., $PM_{2.5}$) SO_2 & NO_X] should be regularly submitted to the Ministry including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months	The AAQ monitoring data is submitted every six monthly to MoEF Lucknow , CPCB Bhopal and SPCB Jaipur.
vi	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	Water sprinkling is carried out by 4 Nos. of 40 KL water sprinkler on Haul roads to mitigate air pollution in mine area. Dust extraction system and Water sprinkling nozzles are installed at the crusher, transfer points and coarse stockpiles for dust suppression. The parameters of Ambient Air quality monitored are within the prescribed norm of CPCB. Annexure-X
l l	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs	Various measures including installation of silencers, mufflers, vibration pads, noise insulation, acoustic enclosures and suitable

		PPE's are provided at design and operating stage for reducing the noise levels at work place below 85dB(A). Annexure IV
viii	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents	Oil & Grease trap exists at workshop drain and overflow water is being used in process plant. Water Analysis is enclosed. Annexure V Oil trap photo attached as AAnnexure –XVIII.
ix	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed	All the personal protective equipments are provided to all the workmen, Vocational Training is mandatory for all the workmen as per the Mines Rules. Periodical medical examination being done regularly as per Mine Act.
х	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization	Environment Management Cell has been set up having adequate qualified Executives and a Senior executive who reports to Location Head directly.
xi	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Lucknow	Noted, Environmental funds are earmarked for environment work only. Environmental expenditure is reported on six monthly basis enclosed as Annexure VI
xii	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work	Noted
xiii	The Regional Office of this Ministry located at Lucknow 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	Noted
xiv	The project proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of CPCB and the SPCB. The proponent shall upload the status of compliance of the EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Officer of CPCB and the SPCB	Being submitted regularly to MoEF Lucknow, CPCB Bhopal and SPCB Jaipur. Last report submitted on May 2019 The status of compliance of the EC conditions are uploaded on company's website and same is regularly updated.
xv	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were	EC letter sent to all the authorities on 01/01/2010

	received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent	
xvi	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days	any.
xvii	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, at Lucknow by e-mail	submitted on 14 th September 2019. The EC, Compliance status and statement are uploaded on company's website. Annexure XIX
xviii	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow	Complied and the Copy of the advertisement was sent to MoEF, Lucknow vide letter No HZL/RAM/Env/Exp/2009 Advertised in two News paper on 03.01.2010
3	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection	Noted.
4	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	Noted
5	The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules made thereunder and also any other orders passed by the Honorable Supreme Court of India/ High Court of Rajasthan and any other Court of Law relating to the subject matter	Noted
6	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997	Noted

Director, Aguch SB0 Hindustan Zinc Limited Rampura Aguc la Mine PO- Agucha Distt. - Bhilwara (Raj.)

HINDUSTAN ZINC LIMITED RAMPURA AGUCHA MINE

MoEF Environmental Clearance Compliance to amendment in EC vide letter No J-11015/267/2008-I-Å.II (M) dated 5 March, 2012

Sr. No	Condition	Status
i	In the environment clearance letter dated 11 th December, 2009, in para number 1, the words "The mineral will be transported through the road." will be substituted by the words "The mineral will be transported through the rail".	Amendments granted by MoEF vide letter dated 28.12.2015 "The mineral will be transported both through road and rail". Railway line commissioned but not operative.
ii (a)	All the requisite prior clearance from the concerned authorities, as may be applicable to such project shall be obtained and the conditions, if any, stipulated there under shall be effectively implemented.	All the requisite prior clearance from the concerned authorities, as may be applicable to such project shall be obtained and the conditions, if any, stipulated there under shall be effectively implemented.
ii (b)	The project affected people whose land will be acquired for laying of the railway track shall be compensated as per the National / State Policy in this regard.	Compensation given to land owners done by RIICO, GOR as per the norms.
ii (c)	The company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter alia provide for (i) Standard operating process / process to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions, (ii) Hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions and (iii) System of reporting of non compliance s / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders.	Policy towards Corporate Environment Responsibility enclosed.

Director, Aucha SBU Hindustan Zinc Limited Rampura Agucha Mine PO- Agucha Distt. - Bhilwara (Raj.)

HINDUSTAN ZINC LIMITEDRAMPURA AGUCHA MINE

MoEF Environmental Clearance Compliance to amendment in condition no (v) in EC vide letter No J-11015/267/2008-I-A.II (M) dated 22nd August, 2014

Specif SNo		
		Status
i	The Open crack, whenever developed in the partially consolidated new dump mass, should be consolidated with proper filling/ leveling with the help of dozer/ compactors.	In such case, we shall consolidate with proper filling/ leveling with the help of dozer.
ii	Dump foundation preparation should be done by excavating and removing soil before dumping, to improve the frictional resistance at the base of dump. It should be filled with over burden containing stones.	Complied mining rock waste dump on exiting waste dump.
iii	There should not be any dumping in pool water or on slushy ground.	No dumping is done in water pooled / slushy ground
iv	Discontinuous dumping should be avoided to check water accumulation between two isolated dumps.	Dumping is done at a single earmarked area.
V	During rainy season, an officer should be deputed to go in and around the dump site every morning to see the effectiveness of drain. If any blockage is observed, immediately steps should be taken to make it effective.	Mining officer is always deputed during rainy season to ensure smooth flow of runoff water.
vi	The dump should be surveyed periodically to produce up-to-date and accurate dump geometry.	Survey team survey the dump once in a month to produce up-to-date and accurate dump geometry.
vii	The slope and stability monitoring by Radar should be done and its report should be sent to MoEF and its Regional Office every six – months.	stability monitoring by Radar Report enclosed as Annexure VII
viii	The dump design should be reviewed by CIMFR or any other scientific agency after reaching dump height of 120m and its report sent to MoEF and its Regional office.	Complied. Waste dump design and slope stability is being reviewed yearly by CIMFR and report being submitted to MoEF Regional Office. Latest report is attached as Annexure XXI
ix	Waste dump has to be managed as per the guidelines of DGMS and quarterly monitoring report to be submitted to DGMS and regional office	Waste dump is being managed as per the DGMS guidelines and quarterly monitoring report shall be submitted to DGMS and regional office.

х	On stabilized dumps, more species such as Pongamia,	Agreed. We shall plant the specified
	Bombax ceiba, Tamarind, Arjun, Gravillea robusta and Amla to be planted.	species along with the ones we are planting.
xi	The Radar monitoring system should satisfactorily subserve the dual objectives viz.(a) Investigative monitoring to provide an understanding of the slope behavior over time and typical response to external events (e.g. Precipitation and seasonal fluctuations) and (b). Predictive Monitoring: To provide a warning of a change in behavior, enabling the possibility of limiting or intervening to prevent hazardous sliding. The data so analyzed should be provided with reference to the above.	The analyzed data is enclosed Annexure - VII
xii	Paved drains are to be provided to protect the slope surface against rain-cuts and seepage during rains to make a safe way to discharge top and surface water to the bottom of the dump. Constant vigilance on the condition of dumps with special reference to accumulation of water and development of cracks.	Paved drains shall be provided. Constant vigilance shall be given on the dump condition with special reference to water accumulation and development of cracks.
xiii	Regular Monitoring of above mentioned specific conditions shall be included in the monitoring plan and report submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office located at Lucknow on six monthly basis.	Regular monitoring of the above mention conditions conducted and report is enclosed.

Director, Agucha SBU Hindustan Zinc Limited Rampura Agucha Mine PO- Agucha Distt. - Bhilwara (Raj.)

HINDUSTAN ZINC LIMITED, RAMPURA AGUCHA MINE MoEF Environmental Clearance Compliance to amendment in EC vide letter No. J11015/267/2008-I-A-II (M) dated 28th February , 2020

	A) Additional Specific Conditions		
CN	•	Chatara	
S.No.	Condition	Status	
1.	PP shall ensure that the recommendation provided in	Height raising of the tailing dam will be done	
	study conducted by Indian Institute of Science, Bangalore shall be complied for increasing the height of the tailing	as per the recommendations of Indian Institute of Science, Bangalore study.	
	dam.	Institute of Science, Bangalore Study.	
2	The risk arising due to surface runoff during rainy season	Tailing Dam is always having freeboard and	
_	or otherwise, from the tailing area/heap, shall be	there is no risk of surface runoff from the area.	
	assessed on regular basis and corrective measures shall		
	be undertaken and reported to SPCBs.		
3	PP shall engage suitable agency for conducting	Study is being done by CIMFR, Dhanbad.	
	subsidence study for increasing the depth of working from	Looking to the restrictions due to COVID-19,	
	1000 mbgl to 1500mbg. The report shall be submitted to	study may get delayed. Extension in time limit	
	Ministry within 6 months.	of 6 months may please be allowed. Report	
		will be submitted on completion. Copy of	
		Work Order is attached as Annexure – XXXII	
4	No waste to be transported outside the mining lease area.	No waste is transported outside the lease	
		area. If required to be done in future,	
		necessary approvals will be taken.	
_	ndard Conditions:		
(A	s Ministry's O.M No 22-34/2018-IA.III dated 8.01.2019 and	Ministry's O.M No 22-34/2018-IA.III dated	
1 C+	16.01.2020)		
	atutory compliance	All and Parkla and and and I do so at 1911 ha	
1	This Environmental Clearance (EC) is subject to orders/	All applicable orders/ and Judgment will be	
	judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common	complied.	
	Cause Conditions as may be applicable.		
2	The Project Proponent complies with all the statutory	Till date no liability raised by state	
2	requirements and judgment of Hon'ble Supreme Court	government. If raised any in future, same will	
	dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of	be complied.	
	2014 in matter of Common Cause versus Union of India &	be complicu.	
	Ors before commencing the mining operations.		
3	The State Government concerned shall ensure that	Till date no liability raised by state	
	mining operation shall not be commenced till the entire	government. If raised any in future, same will	
	compensation levied, if any, for illegal mining paid	be complied.	
	by the Project Proponent through their respective	'	
	Department of Mining & Geology in strict compliance of		
	Judgment of Hon'ble Supreme Court dated 2 nd August,		
	2017 in Writ Petition (Civil) No. 114 of 2014 in matter of		
	Common Cause versus Union of India &Ors.		
4	This Environmental Clearance shall become operational	Not Applicable for our operations.	
	only after receiving formal NBWL Clearance from		
	MoEF&CC subsequent to the recommendations of the		
	Standing Committee of National Board for Wildlife, if		
	applicable to the Project.		

Г	This Faving magnetal Classics about the control of	Forest aleganese and analizable and beauty
5	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.	Forest clearance not applicable as there is no forest land in Mine Lease area.
6	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish/Consent to Operate from the concerned State Pollution Control Board/Committee.	vide letter No. F(Mines)/Bhilwara(Hurda)/1(1)2009-2010/4792 dtd 21/01/2010 (Copy attached as Annexure- XXXIV). Consents to Operate are valid till 28.02.2023. (Copies attached as Annexure -XXXV) There is no requirement of obtaining CTE & CTO afresh as this is an amendment in existing EC.
7	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	Adherence to all provisions of Mines Act, MMDR Act and circulars of DGMS & IBM is ensured.
8	The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act,1957 and rules made there under in respect of lands which are not owned by it.	All the land is owned by HZL. Operations were started in the year 1991.
9	The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IA. II (M), dated 29 th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area"	No village and Habitation are part of mining lease area.
10	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	Water withdrawal permission form CGWA NOC vide letter No. 21-4(2)/WR/CGWA/2005-1205 dated 08/07/2013. Annexure XXIV. Renewal application of ground water withdrawal submitted to CGWB vide letter No. HZL/RAM/ENV/2018-2019/26 dated 04/04/2018. As annexure XXV
11	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion/ representation has been received while processing the proposal.	Copy of EC letter was submitted to Panchayat in 2009.
12.	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.	Copy is marked to Rajasthan State Pollution Control Board.

13	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	Copy of the advertisement was sent to MoEF &CC, Lucknow vide letter No HZL/RAM/Env/Exp/2009 Advertised in two News papers on 03.01.2010.
14	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	Will inform as per EIA notification in case of any change in ownership or transfer of the mining lease.
15	In pursuant to Ministry's O.M. No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Reclamation is carried out progressively for growth of flora and fauna.
	II. Air quality monitoring and preservation	
16	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction	Three Online Ambient Air Quality Monitoring Stations are in place, 1 in upwind and 2 in downwind direction.
	such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, N02, CO and S02 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in	Six Ambient air monitoring locations, three each in core and buffer zone each are selected in consultation with the SPCB. AAQ monitoring is carried out every fortnightly
	the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.	Data digitally displayed at main gate. Attached as Annexure-XXVI.
17	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM 10 and PM2.5 are evident such as haul road,	Water sprinkling is carried out by 4 Nos. of 40 KL water sprinkler on Haul roads to mitigate air pollution in mine area. Dust extraction system and Water sprinkling nozzles are

loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

installed at the crushers, transfer points and coarse stockpiles for dust suppression. Industrial roads are cleaned by using Truck mounted vacuum road sweepers. (Annexure-XXII) The parameters of Ambient Air quality monitored are within the prescribed norm of CPCB. Annexure-X

III. Water quality monitoring and preservation

In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.

Water intersection permission form CGWA NOC vide letter No Letter No. 21-4(2)/WR/CGWA/2005-1204 dated 8th July 2013. Annexure XXVII

Renewal application was submitted vide letter No. HZL/RAM/Env/2016-2017/228 dated 28/04/2016. Annexure XXVIII

Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control

There is no perennial nallahs in and around mine lease. Not disturbed any village's natural water bodies or streams.

Regular water monitoring carried out for open dug well / piezometers near mining area and water level and water quality report Quarterly to CGWA, GCWB & State Pollution Control Board.

Drinking water is provided to the nearby villages through tankers.

Report Submitted to MoEF&CC on six monthly basis. Attached as Annexure –I (2-3)

The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be

There is no perennial nallahs in and around mine lease.

Regular Monitoring of natural water resources around mining lease is carried out.

Regular water monitoring carried out for open dug well / piezometers near mining area and water level and water quality report Quarterly to CGWA, GCWB & State Pollution Control Board. (Annexure- I (1, 2 & 3).

20

21

	made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	
22	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1 /2006-IA. II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	Water generated from mining operations is utilized in Beneficiation Plant and zero discharge is maintained. There is no acid mine drainage occurring in the mine. Garland drains are constructed around the tailing dam and waste dump with collection sumps.
23	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	Garland drains are constructed around the tailing dam and waste dump with collection sumps of 8.5 lakh CuM capacity to collect and reuse the rain water. Collection pond of 1.5 lakh CuM has been constructed in the township. 3 Nos. of anicuts have been constructed for groundwater augmentation in consultation with CGWB. 4 anicults constructed in the area under MJSA. Massive groundwater recharge work is in progress in four blocks of Bhilwara district Annexure –XI.
24	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap	No waste water generation from mining. Water generated during mining intersection is used in sprinkling and beneficiation process. Water from tailing dam is recycled back to the Beneficiation Plant and zero discharge is maintained. Oil & Grease traps are installed near work shop and water reused in beneficiation process. Annexure XVIII
25	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be	Water balance attached as annexure

	taken up and reported to the Regional Office of the	
	MoEF&CC and State Pollution Control Board/Committee. IV. Noise and vibration monitoring and prevention	
26	The peak particle velocity at 500m distance or within the	Peak particle velocity monitoring done as per
20	nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines	guidelines. Annexure-XXIII
27	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	Lights are installed in a manner so that no disturbance to the villagers. Noise levels are also within prescribed limits. Annexure- IV
28	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	PPEs like ear plugs / muffs, dust masks, safety goggles, safety shoes etc. provided to all workers/ personals/ laborers. Adequate trainings provided to all concerned and toolbox talks are carried out before starting work. Noise monitoring done as per guideline report attached as per Annexure –IV
	V. Mining plan	
29	The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, OB & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.	Working as per mining plan. There is no changes in mining technology scope of work, method of mining, overburden & dump management, OB & dump mining, mineral transportation mode, ultimate depth of mining. As per the latest MoEF&CC O.M. No. 22-44/2018-IA.III dated 14.05.2020, production will not be extended beyond EC approved quantity.
30	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority	Progressive Mine Closure Plan is part of approved Mining Plan. Final Mine Closure Plan along with details of Corpus Fund will be got approved from IBM and copy of the same will be submitted to MoEF&CC well in advance of final mine closure.

	to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	
31	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.	Land use of mine lease area, excavation and afforestation and reclamation are done as per approved mining plan.
	VI. Land reclamation	
32	The Overburden (OB) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per	Overburden burden is stacked at earmarked Waste Dump site. Physical parameters maintain as per mining plan and DGMS guidelines and circulars.
	the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.	The topsoil is used for land reclamation and plantation. In current FY there is no top soil generation.
33	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	Overburden burden is stacked at earmarked Waste Dump site. Physical parameters maintain as per mining plan and DGMS guidelines and circulars. stability monitoring by Radar Report enclosed as Annexure –VII
34	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	Reclamation of waste dump site as per mining plan.
35	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/leveling of dump mass. In critical areas, use of geo textiles/ gee-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	Slopes of waste dumps are stabilized and vegetated in scientific manner using geotextile and with native and arid zone seeds (like <u>Acacia nitolica ,Ziziphus Jojoba ,Prosopis cineraria, Alkanna Tinctoria, Capparis decidua, Gundi, Salvadorapersica spread on waste dump slopes. Aloe Vera and Vetiver grass planted during laying of geotextiles Annexure XXX</u>
36	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope	Waste dump design and slope stability is being reviewed yearly by CIMFR and report being submitted to MoEF&CC Regional Office. Latest

1		
	stability report shall be submitted to concerned regional office of MoEF&CC.	report submitted vide letter No.HZL/RAM/ENV/MoEF/2019-20/225 dtd 28 November 2019. Annexure XXI
37	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly	Garland drains of adequate size are constructed along the waste dump toe & mining pit, along with lined collection sumps of about 8.5 lakh CuM . The water collected is utilized for various purposes. De-silting sump and drains are de-silted on regular basis. Annexure –VIII
38	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	Garland drains of adequate size are constructed along the waste dump toe & mining pit, along with lined collection sumps of about 8.5 lakh CuM . The water collected is utilized for various purposes. De-silting sump and drains are de-silted on regular basis. Annexure –VIII
39	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.	The topsoil has been utilized for land reclamation and plantation. At present no top soil dump at site.
	VII. Transportation	
40	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the	Ore transportation is being done within acquired land and not passing through any village / habitation. Regular water sprinkling is done on haul roads (Annexure X). Industrial roads are cleaned using truck mounted vacuum Road Sweepers(Annexure-XXII). Periodic preventive maintenance of vehicles is part of our operations. All the trucks are covered with tarpaulin while transportation of concentrates to the smelters. PUC certificate is ensured for every truck prior to entry in the premises. Annexure XIII

traffic load. The pollution due to transportation load on

	the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution	
41	testing centers. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid	Regular water sprinkling is done on haul roads (Annexure X). Dust extraction system and Water sprinkling nozzles are installed at the crushers, transfer points and coarse stockpiles for dust suppression. Industrial roads are cleaned by using Truck mounted vacuum road sweepers. (Annexure-XXII) The parameters of Ambient Air quality monitored are within the prescribed norm of CPCB.
	generation of fugitive dust emissions. VIII. Green Belt	
43	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan. The Project Proponent shall carryout plantation/afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this	Green belt developed all along the acquired area. Green belt developed all along the acquired area. Progressive plantation is being carried out on waste dump benches every year as per plan submitted. Till date 309.20 ha. land is under plantation. Plantation in remaining area will be completed by closure of mine. Additional plantation has been done in 37.70 ha in the township and along road sides. Annexure—IX. Density of the plantation will be
44	respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should	increased in phase manner. Hindustan Zinc Ltd. is carrying out various work for livestock and agriculture development under its flagship project named "Samadha" in collaboration with BAIF (National level Origination)
	essentially implement the directions of the Hon'ble	

45	Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be	Not applicable there is not Shedule-1 species in mining area
46	approved by Chief Wild Life Warden of the State Govt. And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	Not applicable There is not Shedule-1 species in mining area
	IX. Public hearing and human health issues	
47	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which. are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.	Appointed Occupational Health Specialist. Regular as well as Periodical medical examination of the workers are carried out as per Mines Act. Copy of the return submitted to DGMS is attached as annexure –XXXI
48	The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.	We are committed for Zero Harm from our mining activities. Various studies have been done for health risk assessment regarding identification and control measures for work place hazards. Regular health check-ups of nearby community are done through "Smile Foundation" (Annexure-XX) and awareness sessions are also conducted.
49	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust	Biological monitoring and tests and investigations relevant to the exposure are carried out and record maintain by Occupational health team. No manganese and

		T
	a X-Ray chest; For Noise Audiometric; for Lead Exposure	chromium mining so Mn & Cr monitoring not
	Blood Lead, For Welders Full Ophthalmologic Assessment;	applicable. Blood lead estimation is done.
	for Manganese Miners a complete Neurological	
	Assessment by a Certified Neurologist, and Manganese	
	(Mn) Estimation in Blood; For Inorganic Chromium-	
	Fortnightly skin inspection of hands and forearms by a	
	responsible person. Except routine tests all tests would be	
	carried out in a Lab accredited by NABH. Records of	
	Health Surveillance must be kept for 30 years, including	
	the results of and the records of Physical examination and	
	tests. The record of exposure due to materials like	
	Asbestos, Hard Rock Mining, Silica, Gold, Kaolin,	
	Aluminium, Iron, Manganese, Chromium, Lead, Uranium	
	need to be handed over to the Mining Department of the	
	State in case the life of the mine is less than 30 years. It	
	would be obligatory for the State Mines Departments to	
	make arrangements for the safe and secure storage of the	
	records including X-Ray. Only conventional X-Ray will be	
	accepted for record purposes and not the digital one). X-	
	Ray must meet ILO criteria (17 x14 inches and of good	
	quality).	
50	The Proponent shall maintained a record of performance	Periodical medical examination of the workers
50	indicators for workers which includes (a) there should not	are carried out as per DGMS guidelines and
	be a significant decline in their Body Mass Index and it	records are maintained.
	should stay between 18.5 -24.9, (b) the Final Chest X-Ray	records are maintained.
	compared with the base line X-Ray should not show any	
	capacities, (c) At the end of their leaving job there should	
	be no Diminution in their Lung Functions Forced	
	Expiratory Volume in one second (FEV1), Forced Vital	
	Capacity (FVC), and the ratio) unless they are smokers	
	which has to be adjusted, and the effect of age, (d) their	
	hearing should not be affected. As a proof an Audiogram	
	(first and last need to be presented), (e) they should not	
	have developed any Persistent Back Pain, Neck Pain, and	
	the movement of their Hip, Knee and other joints should	
	have normal range of movement, (f) they should not have	
	suffered loss of any body part. The record of the same	
	should be submitted to the Regional Office, MoEF&CC	
	annually along with details of the relief and compensation	
	paid to workers having above indications.	Dust weeks are weekland to all weekland
51	The Project Proponent shall ensure that Personnel	Dust masks are provided to all workers/
	working in dusty areas should wear protective respiratory	personals/ laborers. Adequate trainings
	devices and they should also be provided with adequate	provided to all concerned and toolbox talks
F2	training and information on safety and health aspects.	are carried out before starting of work.
52	Project Proponent shall make provision for the housing	No construction labour housing is proposed in
	for workers/ labors or shall construct labor camps within/	mining area. However, the sanitation and
	outside (company owned land) with necessary basic	drinking water facility is provided to the
	infrastructure/ facilities like fuel for cooking, mobile	workers, working at site. Sewage Treatment
	toilets, mobile STP, safe drinking water, medical health	
	care, creche for kids etc. The housing may be provided in	

	the form of temporary structures which can be removed	Plants are also installed at mining area and
	after the completion of the project related infrastructure.	township.
	The domestic waste water should be treated with STP in	
	order to avoid contamination of underground water.	
53	The activities proposed in Action plan prepared for	All the issues raised during Public Hearing in
	addressing the issues raised during the Public Hearing	the year 2009 were addressed.
	shall be completed as per the budgetary provisions	
	mentioned in the Action Plan and within the stipulated	
	time frame. The Status Report on implementation of	
	Action Plan shall be submitted to the concerned Regional	
	Office of the Ministry along with District Administration.	
	X. Corporate Environment Responsibility (CER)	
54	The activities and budget earmarked for Corporate	Separate Cost center and GL account are
	Environmental Responsibility (CER) as per Ministry's O.M	maintained. Activities proposed for CER will
	No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed	be implemented in time bound manner.
	by EAC should be kept in a separate bank account. The	
	activities proposed for CER shall be implemented in a time	
	bound manner and annual report of implementation of	
	the same along with documentary proof viz. photographs,	
	purchase documents, latitude & longitude of	
	infrastructure developed & road constructed needs to be	
	submitted to Regional Office MoEF&CC annually along	
	with audited statement.	
55	Project Proponent shall keep the funds earmarked for	
	environmental protection measures in a separate account	environment work only. Separate Cost center
	and refrain from diverting the same for other purposes.	and GL account are maintained.
	The Year wise expenditure of such funds should be	Environmental expenditure is reported on six
	reported to the MoEFCC and its concerned Regional	monthly basis enclosed as Annexure -VI
	Office.	
	XI. Miscellaneous	
56	The Project Proponent shall prepare digital map (land use	The land use & land cover change study
	& land cover) of the entire lease area once in five years	carried out in 2018. Copy already submitted
	purpose of monitoring land use pattern and submit a	on 28/05/2018. Annexure-XIV
	report to concerned Regional Office of the MoEFCC.	
57	The Project Authorities should inform to the Regional	Being operational unit, condition is not
	Office regarding date of financial closures and final	applicable.
	approval of the project by the concerned authorities and	
E 0	the date of start of land development work.	Compliances report submitted to MOTERCE
58	The Project Proponent shall submit six monthly	Compliances report submitted to MOEF&CC
	compliance reports on the status of the implementation of the stipulated environmental safeguards to the	& Regional Office, Central Pollution Control
	MOEFCC & its concerned Regional Office, Central	Board and State Pollution Control Board.
	Pollution Control Board and State Pollution Control Board.	
59	A separate 'Environmental Management Cell' with	Environment Management Cell has been set
73	suitable qualified manpower should be set-up under the	
	control of a Senior Executive. The Senior Executive shall	up having adequate qualified Executives and a
	directly report to Head of the Organization. Adequate	Senior executive who reports to Location
	number of qualified Environmental Scientists and Mining	Head directly.
	Engineers shall be appointed and submit a report to RO,	
	MoEF&CC.	
1	MOLI &CC.	

60	The concerned Regional Office of the MoEF&CC shall	Noted
	randomly monitor compliance of the stipulated	
	conditions. The project authorities should extend full	
	cooperation to the MoEF&CC officer(s) by furnishing the	3
	requisite data / information / monitoring reports.	

mallial 20/2020

Director, Agucha SBU Hindustan Zinc Limited Rampura Agucha Mine PO- Agucha Distt. - Bhilwara (Raj.)

Mechanism for addressing Environmental Issues

HZL has a Health Safety and Environment Policy, given below, signed by its CEO and forms the guidelines for the entire organization. A well laid mechanism is implemented uniformly across all units of HZL for the implementation of the policy.

All operating uints of Hindustan Zinc Limited are certified for ISO-14001 Environmental Management system (EMS). The Management Representative (MR) of the certification system is an experienced environmental officer with due authority to implement and drive a responsible EMS. The MR is duly supported by a committee constituting the operations and maintenance officers of the unit. The system has a well laid documented procedure for identification of all environmental aspect, Impacts and implementation of suitable mitigation measures.

The company has three level monitoring mechanism for addressing environmental concerns starting at unit level, HZL corporate level and Vedanta group company level. Depending on the scale and nature of the issue, the concern is escalated to different level right up to the Board of the company and also the shareholders of the company in the general body meetings.

The compliances to Environment Clearance and all environmental licenses are reviewed and monitored regularly and reports are submitted to the respective regulatory authorities at every unit, by a dedicated environmental professional, who reports directly to the unit head. The compliance is periodically reviewed and audited by Corporate Environment Department, which reports to the top management of the company. A Corporate Sustainability Committee, chaired by the CEO of the company, oversees all sustainability issues including Environment, Safety and Health and also reviewing any policy matters.

Any non-compliances/show cause/notices/complaints received from regulatory authority or any stakeholder is addressed jointly by the unit and corporate environment department. Such issues are also reported and the actions taken are reviewed by the top management every month. Further, all show cause, complaint letters and notices from any stakeholder, along with the action taken report is submitted to the Board Of Directors of the company every quarterly. All major concerns are reported to the stakeholders through the annual general body meetings of the company.



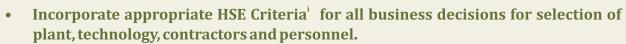
HINDUSTAN ZINC

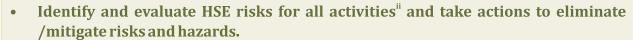


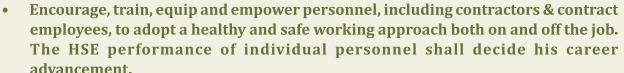
Health, Safety & Environment (HSE) Policy

Hindustan Zinc is committed to conduct all business activities in a responsible manner, which ensures the health and safety of our stakeholders and the environment. In order to achieve that, we shall:

- Ensure Zero Harm to personnel and environment.
- Demonstrate visible HSE leadership that HSE is our core value.
- Comply with all HSE rules, regulations, obligations and requirements and will strive to go beyond compliance to the relevant requirements and shall continually improve our HSE management systems.









Conserve natural resources and eliminate waste through reduction, recycling and reuse methods, which are environment-friendly and energy-efficient.

Health, Safety & Environment (HSE) Guiding Principles:

- Management shall demonstrate its strong commitment towards HSE at all times.
- All injuries, occupational illnesses and adverse environmental incidents are preventable.
- Reporting and investigation of all incidents is an obligation.
- We are responsible and accountable for preventing injuries, occupational illnesses and adverse environmental incidents.
- We are empowered and obligated to stop any job being carried out in an unsafe manner.
- HSE values shall never be compromised.
- Adherence to HSE management system is a condition of employment.

We personally commit to applying the policy & principles for building positive HSE culture at Hindustan Zinc and report wherever applicable.



ii - the policy is not only applicable to our existing operational sites/new projects but also all the due-diligence, mergers and acquisitions and non-managed operations / licensees / third-party manufacturers / joint ventures / outsourcing partners











Sunil Duggal

Annexures Table

S. No.	Descriptions	Annexure No.
1	Water PZ & well water quality data water level	Annexure I(1,2 & 3)
2.	Waste Dump rock analysis	Annexure II
3	Ambient air quality data	Annexure III
4.	Noise level monitoring	Annexure IV
5.	Environment sump analysis	Annexure V
6.	Environmental Expenditure	Annexure VI
7.	Dump Slope monitoring Data: Radar & Prism data	Annexure VII
8.	Retaining wall &Garland Drain	Annexure VIII
9.	Plantation in mining area	Annexure IX
10	Water sprinklers in mining haul road	Annexure X
11	Anicuts photo	Annexure-XI
12	Environment Sump	Annexure XII
13	Truck covered with tarpaulin	Annexure XIII
14	Land use mapping by digital processing report	Annexure XIV
15	HDPE laying in tailing dam	Annexure XV
16	STP (300KLD & 425 KLD)	Annexure XVI
17	Display board at Main gate	Annexure XVII
18	Oil & grease trap	Annexure XVIII
19	Environment statement (Form V)	Annexure XIX
20	Smile on Wheel report	Annexure XX
21	Dump stability monitoring report by CMIFER	Annexure XXI
22	Truck mounted vacuum road sweepers	Annexure XXII
23	Peak particle velocity monitoring	Annexure-XXIII
24	CGWA NOC water withdrawal letter	Annexure XXIV
25	Renewal application of ground water withdrawal	Annexure XXV
26	Digital Display	Annexure XXVI
27	CGWA NOC water intersection letter	Annexure XXVII
28	Renewal application of ground water intersection	Annexure XXVIII
29	Water balance	Annexure XXIX
30	Geotextiles Photo	Annexure XXX
31	Periodical medical examination	Annexure XXXI
32	Covered Conveyer belt	Annexure XXXII
33	Copy of Subsidence Study work order	Annexure XXXIII
34	Copy of Consent to establish	Annexure XXXIV
35	Copy of Valid CTO	Annexure XXXV
36	Tailing through closed pipe line	Annexure XXXVI

Annexure- I (1/3)

HINDUSTAN ZINC LIMITED RAMPURA AGUCHA MINE

WELL WATER ANALYSIS REPORT-Oct-19 to Mar-2020

S. No	1		2	ļ	3	}	4	ļ	5	i	6		7	1	8	3	9)	10	0	1	1
Code	WW	7-10	ww	-22	GV	VD	wv	7-13	HI	P-1	WW	V-15	WW	V-16	WW	V-23	PR	K-1	КО	T-1	WV	V-14
Month	Nov-19	Feb-20																				
pН	7.80	7.90	7.80	7.80	7.90	8.00	7.80	8.20	7.60	8.10	7.80	8.10	7.90	8.40	7.40	7.90	7.40	8.10	7.90	8.20	7.10	7.40
Alkalinity	396	410	264	310	354	370	260	190	252	270	347	396	341	321	369	376	290	310	370	340	340	390
Chlorides	56	62	62	51	150	159	55	62	102	99	63	54	222	179	72	62	181	191	168	157	74	60
Sulphate	310	396	60	89	181	120	167	121	96	103	74	69	142	106	60	51	194	174	198	169	88	81
CN	BDL																					
Pb	0.008	0.008	0.007	0.006	0.008	0.007	0.007	0.005	0.008	0.007	0.008	0.008	0.009	0.007	0.009	0.008	0.006	0.006	0.007	0.008	0.007	0.007
Zn	0.090	0.100	0.070	0.080	0.100	0.100	0.090	0.080	0.100	0.090	0.070	0.080	0.100	0.110	0.090	0.110	0.080	0.080	0.110	0.100	0.090	0.080
Fe	0.080	0.070	0.070	0.080	0.110	0.090	0.110	0.090	0.070	0.080	0.090	0.100	0.110	0.120	0.090	0.100	0.090	0.100	0.100	0.120	0.110	0.100
Cd	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Cu	BDL																					
Co	BDL																					
Ni	BDL																					

All figures are in mg/l except pH

HINDUSTAN ZINC LIMITED

RAMPURA AGUCHA MINE
PIEZOMETER WATER ANALYSIS REPORT October -19 to March-2020

Annexure I (2/3)

S. No.	1		1 2		3		4		5		6		7		8	}
Code	I	•	H		E1		G1			I1	K	1	Α	1	Ad	lm
Months	Nov-19	Feb-20														
pН	7.40	7.80	7.60	7.80	7.60	7.90	7.60	7.90	7.40	8.00	7.40	7.90	7.60	8.10	7.90	7.80
Alkalinity	314	319	342	301	310	348	421	370	555	590	420	410	260	239	390	370
Chlorides	147	171	160	151	191	204	168	187	139	170	160	171	201	240	162	145
Sulphate	102	119	372	351	360	378	490	460	430	410	146	135	207	213	410	492
CN	BDL															
Pb	0.007	0.007	0.009	0.008	0.009	0.008	0.009	0.007	0.008	0.007	0.008	0.007	0.009	0.008	0.010	0.009
Zn	0.100	0.100	0.100	0.110	0.080	0.070	0.070	0.090	0.090	0.090	0.100	0.090	0.090	0.100	0.090	0.100
Fe	0.090	0.100	0.070	0.080	0.100	0.100	0.090	0.100	0.070	0.080	0.100	0.080	0.070	0.080	0.100	0.110
Cd	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Cu	BDL															
Co	BDL															
Ni	BDL															
As	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ca	81	78	72	81	97	101	88	70	72	60	31	37	81	70	60	57
Mg	30	34	34	30	37	40	40	33	41	39	40	31	52	40	38	33

All figures are in mg/l except pH

Annexure I (3/3)

HINDUSTAN ZINC LTD RAMPURA AGUCHA MINE WELL WATER LEVEL MONITORING

(Below the ground level in meters)

Months	W-10	W-22	W-13	W-14	W-15	W-16	W-23	GWD	PRK-1	KOT-1
Oct-19	2.30	2.40	2.30	3.00	3.90	3.10	3.50	4.10	2.10	4.20
Nov-19	2.50	2.70	2.70	3.90	4.30	3.40	4.10	5.20	3.40	4.00
Dec-19	3.40	3.90	3.30	4.70	6.10	6.20	5.80	6.40	4.50	4.80
Jan-20	4.30	4.30	3.90	5.10	5.30	8.10	6.00	7.20	4.30	5.30
Feb-20	4.70	5.10	4.80	5.90	5.90	8.70	5.20	7.90	4.00	5.00
Mar-20	4.90	4.70	4.10	5.00	6.10	9.10	6.90	7.00	4.80	5.60

Annexure - II

Analysis of Waste Dump Rocks

Location: Waste Dump

Element	Ra	inge	
Pb	0.0002%	-	0.0005%
Zn	0.0700%	-	0.0810%
Cu	0.0005%	-	0.0030%
Cd	0.0001%	-	0.0005%
Ni	0.0020%	-	0.0050%
Co	0.0010%	-	0.0025%

RAMPURA AGUCHA MINE Annexure- III

AIR MONIT	ORING	G: AMBIENT	AIR & STAC	K: Oct-201	9 to March 20	20			ACCOMA									Timexure-11	•
Location->				Min	e Site					Mai	n Gate					Min	e Tower		
month/		SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	со	SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	со	SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	со
year	week	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	$(\mu g/m3)$	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
Oct-19	Ist	17.05	67.06	32.88	5.40	10.20	290.00	209.33	74.85	28.90	6.60	12.40	340.00	206.51	82.39	29.03	4.20	8.40	370.00
001-19	IInd	218.36	86.79	34.35	5.22	12.90	320.00	231.41	81.62	37.87	4.98	13.03	320.00	234.16	80.28	34.66	4.71	14.59	310.00
Nov-19	Ist	202.59	68.31	32.74	6.20	10.40	350.00	210.85	69.78	28.90	6.20	11.40	350.00	212.85	78.48	28.78	5.50	10.40	305.00
1101-19	IInd	193.20	85.83	35.11	4.97	14.65	230.00	187.93	74.24	28.88	5.30	14.40	320.00	238.10	76.19	32.29	5.54	13.63	220.00
Dec-19	Ist	206.80	71.11	32.87	4.40	12.20	380.00	213.23	74.27	33.03	4.20	10.20	330.00	221.69	78.59	37.16	5.20	9.80	340.00
Dec-19	IInd	182.39	78.38	36.75	3.06	15.89	270.00	199.23	69.62	39.21	2.75	14.54	260.00	293.99	83.32	44.56	3.65	17.45	280.00
Jan-20	Ist	212.27	71.25	36.75	5.20	9.20	390.00	203.99	68.91	32.89	5.30	8.80	320.00	205.03	71.06	36.83	3.80	8.20	320.00
Jan-20	IInd	275.94	79.82	41.23	4.50	11.54	340.00	205.78	84.04	29.89	3.94	9.46	270.00	294.73	79.88	42.06	5.40	11.80	370.00
Feb-20	Ist	212.94	69.04	37.00	5.40	8.20	380.00	212.92	71.13	34.14	5.20	7.20	330.00	220.35	72.65	33.17	4.20	6.40	360.00
F 60-20	IInd	269.32	87.16	34.30	3.99	15.32	350.00	252.90	84.03	36.53	5.02	14.93	370.00	283.13	86.97	34.44	3.57	14.44	260.00
Mar-20	Ist	279.46	68.84	32.67	5.10	15.20	370.00	289.17	68.43	33.15	5.40	11.40	330.00	277.71	67.71	37.25	7.80	16.20	350.00
1V1d1-2U	IInd	281.12	73.12	33.32	8.00	14.50	420.00	294.40	67.31	28.76	8.40	8.30	290.00	273.90	73.52	32.77	6.20	12.00	390.00

Location->				Agucha	a village					Kothiya	ın village			Bherukhera village					
month/		SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	SPM	PM_{10}	$PM_{2.5}$	SO ₂	NO _x	co	SPM	PM_{10}	PM _{2.5}	SO ₂	NO _x	CO
year	week	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	$(\mu g/m3)$	(µg/m3)	$(\mu g/m3)$	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	$(\mu g/m3)$	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
Oct-19	Ist	187.10	60.74	29.03	5.10	8.10	260.00	184.16	52.35	20.73	5.50	7.80	201.00	181.70	55.34	20.46	7.20	8.10	230.00
Oct-19	IInd	153.88	66.28	25.47	5.38	13.87	190.00	150.67	52.76	18.25	3.81	12.04	170.00	183.70	51.87	22.03	7.11	10.87	140.00
Nov-19	Ist	187.10	60.75	28.68	5.10	8.10	260.00	184.16	52.35	20.47	5.50	7.80	201.00	181.70	55.35	20.73	7.20	8.10	230.00
1101-19	IInd	159.29	69.07	21.35	5.81	9.18	350.00	112.31	57.32	22.20	8.15	9.28	180.00	151.62	63.20	23.36	7.45	11.34	140.00
Dec-19	Ist	179.62	63.10	24.87	4.80	7.20	280.00	182.09	59.03	24.56	4.20	8.40	230.00	176.32	55.03	24.87	6.30	6.80	222.00
Dec-19	IInd	208.96	66.07	26.30	3.78	8.69	260.00	188.17	60.09	25.27	3.46	11.64	240.00	178.77	65.33	24.42	3.49	13.85	270.00
Jan-20	Ist	180.96	63.44	20.56	3.20	6.60	210.00	168.34	56.29	24.99	3.50	8.40	220.00	183.32	62.84	20.63	4.20	7.40	210.00
Jan-20	IInd	157.04	62.50	17.00	4.06	8.15	180.00	166.72	60.78	24.56	5.71	9.14	250.00	172.00	55.96	26.07	5.71	8.70	260.00
Feb-20	Ist	181.89	61.63	20.55	3.80	5.40	210.00	172.68	56.29	24.87	4.50	4.90	260.00	165.15	55.75	24.67	3.80	4.20	250.00
Feb-20	IInd	157.67	63.67	17.12	2.78	10.26	240.00	125.20	52.32	24.56	2.59	11.02	240.00	156.05	77.67	29.43	4.30	13.46	260.00
Mar-20	Ist	182.49	59.70	24.66	4.40	8.00	190.00	169.14	54.89	24.99	4.80	8.80	201.00	170.61	55.15	20.64	4.20	8.40	190.00
wiar-20	IInd	191.81	60.95	20.54	5.60	9.60	220.00	179.09	53.29	24.51	6.40	12.40	270.00	177.52	53.13	20.45	5.40	9.60	260.00

STACK MONITORING SPM

Month-Yr	Forth	Pr Crusher (SPM)	S. Crusher (SPM)	New Pr Crusher (SPM)
Oct-19	Ist	38.10	34.69	32.38
001-17	IInd	44.09	28.40	34.80
Nov-19	Ist	31.43	34.69	32.38
1101-17	IInd	27.62	27.90	15.61
Dec-19	Ist	21.43	18.73	29.17
Dec-17	IInd	15.24	15.10	18.51
Jan-20	Ist	39.05	41.02	34.48
Jan-20	IInd	26.35	26.88	14.11
Feb-20	Ist	42.21	36.19	27.06
Feb-20	IInd	30.56	33.33	38.69
Mar-20	Ist	25.66	29.67	26.72
wiaf-20	IInd	21.43	34.00	25.33

Annexure-IV

S.	A cM	NOISE LEV	VEL AT WOR	K ENVIRONM	ENT IN dB(A	.)		E
No.	Area of Monitoring	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Equipment Condition
1.	BENEFICIATION PLANT							
	a. Mill Ambient	72.9/63.5	71.30/70.30	74.30/71.30	76.10/71.30	74.7/68.9	77.1/71.4	Plant is in running condition.
	b. Mill- Grinding Area	80.1	82.2	82.9	82.3	81.2	80.3	do
	c. Operators cabin mill area	75.5	79.0	77.4	78.4	78.4	77.4	do
	d. Flotation cell area	82.7	82.4	81.9	82.3	79.4	80.5	do
	e. AFM's cabin cell area	72.5	75.5	74.8	74.3	76.3	73.1	do
	f. Shift engineer's room	77.2	78.8	78.5	77.7	77.3	77.5	do
	g. Control room	74.1	76.2	76.2	74.3	72.3	75.3	do
	h.Work Shop	76.2	74.3	75.9	75.1	74.6	76.9	do
2	PRIMARY CRUSHER							
	a. Primary Crusher I Control Room	67.9/63.5	65.30/61.30	67.50/63.30	68.10/62.40	67.2/63.2	65.9/61.4	Crusher in running condition
	b. Primary Crusher II Control Room	68.4/62.4	70.20/66.40	69.50/64.30	68.50/64.10	66.1/62.1	66.4/61.9	Crusher in running condition
3	SEC./TERT. CRUSHER							
	a. Shift Room Sec. Crusher	77.1/74.6	75.73.40	75.2/73.50	75.10/73.10	75.4/72.3	75.6/72.4	Crusher in running condition
	b.Secondary crusher control room	74.20	74.20	73.20	74.30	74.40	73.40	do
	Ambient Mine Pit	78.4/72.3	76.2/69.9	75.1/72.3	77.2/69.6	76.8/69.1	76.3/71.0	
4	Village monitoring							
	Agucha	55.4/42.3	54.2/43.2	55.3/44.4	54.3/44.0	55.4/42.1	53.5/43.2	Day/ Night
	Bherukhera	57.2/42.4	55.2/43.3	53.4.3/40.3	53.5/41.3	54.4/39.2	52.9.8/40.2	Day/ Night
	Kothiyan	54.3/44.2	56.3/43.9	54.5.4/43.0	53.6/43.2	52.9/42.7	52.3.2/42.3	Day/ Night

Annexure - V

<u>Env. SUMP WATER ANALYSIS (Oct 2019 to March 2020)</u>

Parameters	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
рН	7.3	7.7	7.4	7.6	7.4	7.8
Oil & Grease	3.5	3.2	3.3	3.4	3	3.7
Alkalinity	231	223	301	254	219	255
Chlorides	433	501	702	643	598	601
Hardness	543	643	743	655	604	656
TDS	755	743	902	1021	884	904
Pb	0.02	0.01	0.01	0.01	0.01	0.02
Zn	1.1	1.2	1.6	1.8	2.1	1.9
Fe	0.08	0.12	0.16	0.14	0.11	0.09
Cd	0.01	0.01	0.01	0.01	0.01	0.01

All value are in mg/l except pH

Remarks: Collected Water is pumped to reclaim reservoir and recycled back to plant for reuse. Zero discharge is maintained.

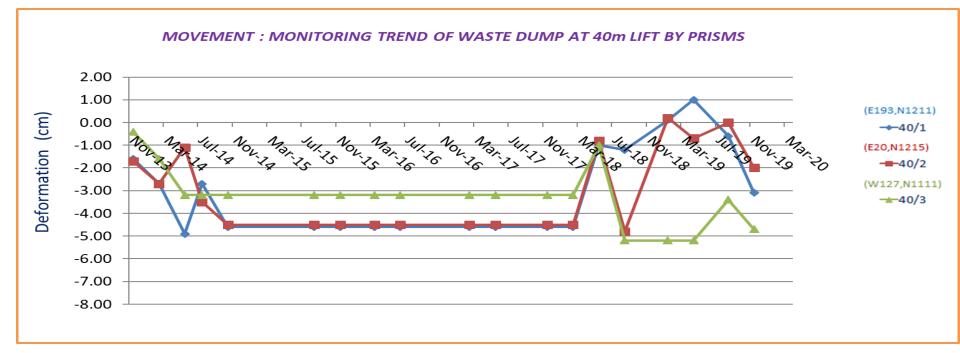
Annexure -VI

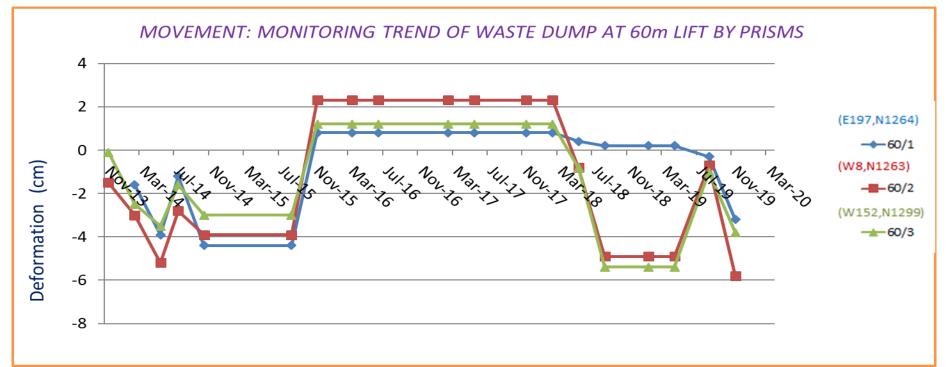
ENVIRONMENTAL EXPENDITURE DETAILS

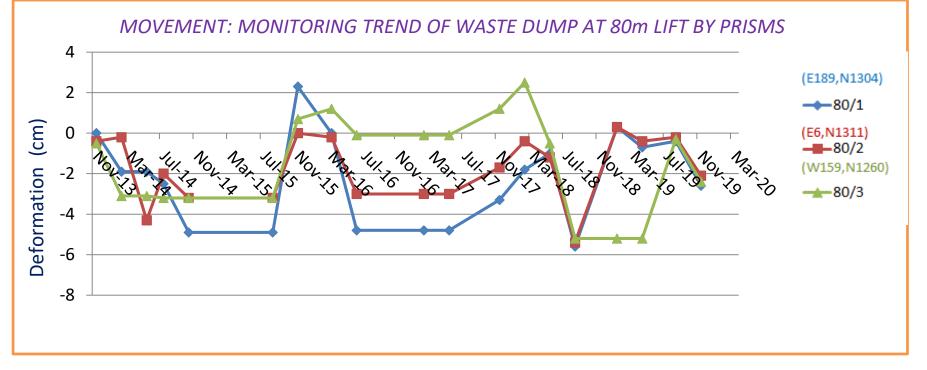
Partiulars		2019-20												
		Oct-2019 to March 2020												
Expenditure	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20								
	38.62	18.03	32.11	142.10	125.86	74.90								
TOTAL Rs (Lacs)	431.62													

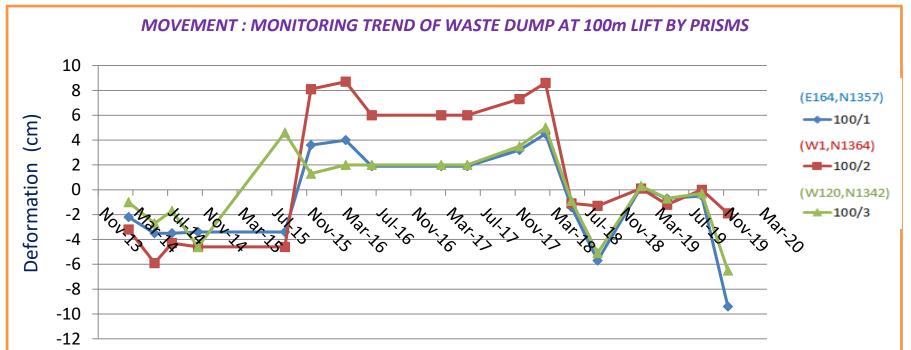
Annexure-VII

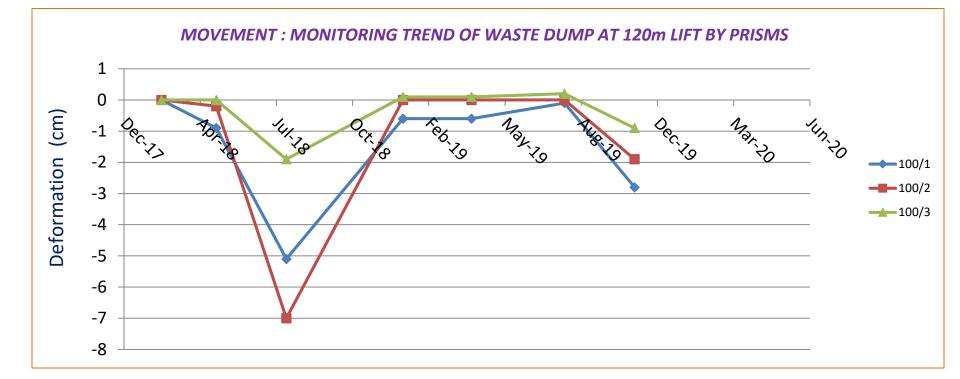
Dump Slope monitoring Data: Radar & pillar-prism Monitoring data for MOEF_ May 2020











Slope Stability Radar monitoring on waste Dump Area





Slope Stability Radar monitoring on waste Dump Area



Annexure – VIII



Garland Drain Photo

Annexure – IX



Plantation Photos

Annexure- X



40KL Water sprinkler

Annexure XI



Anicut Photos

Annexure -XII



Pond Photo

Annexure-XIII



Truck covered with tarpaulin

Land use mapping by digital processing of 15 km. radius of Rampura-Agucha mine, district Bhilwara using remote sensing techniques and showing the changes in land use during last three years



Sponsor: Hindustan Zinc Limited, Rampura-Agucha Mine, Bhilwara

Studied by:



Estb: 1988

Studied for:



Hydro-Geosurvey Consultants Private Limited C-103, Shastri Nagar, Jodhpur- 342003 Phone: - 0291-2431754

Web: www.hydrogeosurvey.com, E-mail: - hydro.geosurvey@yahoo.com March, 2018

Annexure -XV



HDPE laying in tailing dam

Annexure-XVI

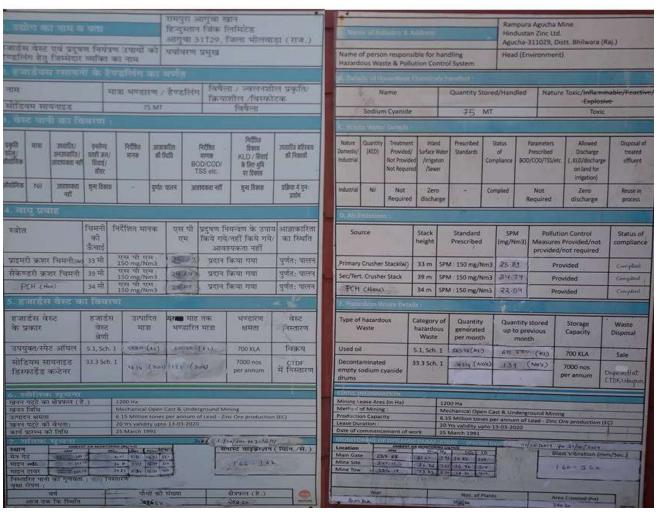


STP (300KLD) in plant premises



STP (425KLD) in plant premises

Annexure -XVII



Display board at Main gate



Oil & Grease trap photo





HZL/RAM/Env/2019-20/1428

September 14, 2019

Member secretary Raj. Pollution Control Board 4, Institutional Area Jhalan Doongri JAIPUR

Sub: Environmental Statement of Rampura Agucha Mine for year 2018-19.

Ref: CTO granted vide order No 2019-2020/Mines/9959 dated 25/06/2019.

CTO granted vide order No 2015-2016/Mines/6781 dated 24/09/2015 (Renewal application for beneficiation submitted vide letter no. HZL/RAM/ENV/2017-18/1636

dated 31/10/2017. [EC: J-11015/267/2008-IA. II(m) dtd. 11.12.2003)

Madam,

Please find enclosed herewith the environmental statement for financial year ending on 31st March 2019.

Thanking you

Yours truly,

(Sujal Kumar Shah)

Director (SUU)

RA Mine

cc to:

Regional Officer

: for kind information please.

Raj. State Pollution Control Board 18, Azad Nagar, Pannadhay Circle,

Mining Engineer Office Road (Near Telephone Exchange)

Bhilwara (Raj.)

The Director,

Ministry of Environment and Forests,

5th Floor, Kendriya Bhawan

Lucknow

Olc Environment

Hindustan Zinc Limited

Rampura Agucha Mines, P.O. Agucha, Dist. Bhitwara (Rajasthan) - 311 022 M +91-9001294956-57, F +91-1483 229012 www.hzlindia.com

Registered Office : Yashad Bhawan, Udaipur (Rajasthan) 312 004 CIN No. L27204RJ1966PLC001208







QUARTERLY PROGRESS REPORT

Reporting Period: 26th Sept. 2019 to 25th Dec. 2019

SUBMITTED TO: HINDUSTAN ZINC -VEDANTA

SUBMITTED BY: SMILE FOUNDATION

BACKGROUND:

Since, last 10 years a substantial amount of effort has been made in India in the field of healthcare reforms. This transition has encouraged an assortment of governments and international agencies to invest resources in the healthcare industry. Delivering affordable health care to India's billion plus people presents enormous challenges and opportunities for the medical community. One of the challenges is increasing accessibility and affordability for those in rural or remote areas. The rural outreach and urban slums in the country still have severe difficulties in accessing even the most basic medical services, because of the accessibility of medical facilities, lack of awareness, poor economical condition; etc.

As per report published by Ministry of Health & Family Welfare, nearly 70 per cent of the country's population lives in rural areas. Of the 121 Crore Indians, 83.3 Crore live in rural areas while 37.7 Crore stay in urban areas, said the Census of India's 2011 Provisional Population Totals of Rural-Urban Distribution in the country¹.(census of India survey 2011)

¹ As per census of India survey 2011

With this motive, Smile Foundation along with HINDUSTAN ZINC- VEDANTA planned to arbitrate in the lives of these underprivileged people by addressing their primary health needs through the mobile medical unit called **Smile on Wheels (SoW)**.

Project Intervention

Mobile Health Clinics / OPD sessions: Every individual needs medical care at some point of time. The project ensures availability of qualified doctor at the door step of beneficiaries. A pre set roster is in place since the inception of the project and is strictly followed. The purpose of this roster is to render health services at an equal span of time in all the targeted villages. During the reporting period 131 OPDs were done These OPDs included health checkups, distribution of medicines and point of care tests.



The details of OPDs and beneficiaries covered are as follows:-

Gender is one of the main social determinants of health that play a major role in the health outcomes of women and children in India. This is predominantly the existing gender inequality in India which negatively impacts the health of women and children. Differential access to healthcare occurs because women typically are entitled to a lower share of household resources and thus utilize healthcare resources to a lesser degree than men. In the context of women's health a sustainable well being can be aimed if strategic interventions are made. In such prevailing conditions Smile on Wheels with its focus to provide doorstep health facilities reached the most vulnerable strata of society i.e. women and children. It is evident from the table and chart that 52% of the beneficiaries were women and children while the rest 48 % were males. However, the OPDs are aimed to sensitize these vulnerable sections of the society

Beneficiaries
Children
14%

Female
38%

Male
48%

Male
48%

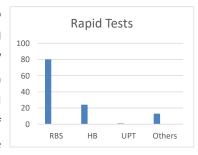


through curative approach to raise health seeking behavior amongst the group.

S. No	Project	OPD's	Male	Female	Children	Total
1	Sow -Rampura , Agucha Mines	131	2049	1630	602	4281

RAPID TESTS

Rapid test is the major part of the health care services provided to the community. It is used in the diagnosis, treatment and management of an increasing range of clinical disorder. Thus SoW breaks the barrier of high charges and time investment for such tests for the underprivileged communities. It also helps to spread the word amongst the community dwellers about the efficacy of the Sow. This directly shows the lack and need to address the



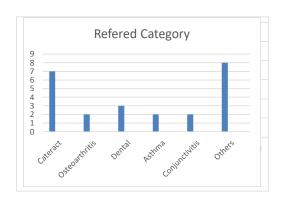
health issue. For e.g. the chart reflects that the highest number of the beneficiaries came for Random Blood Sugar test (80) which indicates the need to address the same .





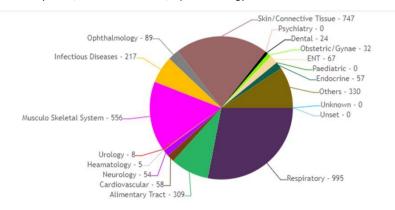
REFERRALS

This is a process whereby a patient or the patient's family is linked with the advanced_healthcare facilities. In connection the Sow not only provides curative services but also acts as a bridge between the community and Government Health Services. Therefore, in such cases, considering the need **24** patients were referred for advance treatment to different Government & Private hospitals.



Disease pattern

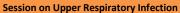
Disease pattern is very much needed for understanding, evaluating & analyzing the community diseases. This helps in addressing the ailment through activity planning, & tracking the need of specific medicines or tests for the targeted communities. This increases the overall efficiency of the project operations. The below analysis shows that the prevalent disease reported is related to Respiratory, Skin, Muscular Skeletal System, Alimentary Tract, Infectious Disease, Ophthalmology etc.



IEC activities

The Purpose of the IEC activity is to create awareness in the community regarding the various health issues, diseases and the preventive measures. The focus of IEC activity is to disseminate maximum information to the community people to make them understand the need of prevention as well as the curative measure. During the reporting period we have conducted 8 IEC activities on the topic of Diabetes, Upper Respiratory Infections, Hand Washing, Personal Hygiene etc.







IEC on Global Hand Washing Day

Below table shows the number of IEC conducted and the number of participants attended the same. During this session we initiated pre and post session questionnaire to analyze the quality measure of our activities and to strengthen our programme in more effective way. During the period we have conducted 4 IEC activities and 4 community health talks on different topics.

A total of 400 beneficiaries attended in overall IEC activities, in which major participants were women and children.

No. of IEC activity conducted	No. of participants	Topic covered
1	150	Hand Washing
1	50	Diabetes
1	150	Personal Health & Hygiene
1	50	Upper Respiratory Infection
4	400	Total

MOTHER AND CHILD CARE

Good care during pregnancy is important for the health of the mother and the development of the fetus. Good ANC links the woman and her family with the formal health system increases the chance of using a skilled attendant at birth and contributes to good health through the life cycle. Inadequate care during this time breaks a critical link in the continuum of care, and affects both mother and child.

This is another important service which is provided to the pregnant women of the targeted areas. Keeping in mind that the health & safety of both the mother and her child at the highest level.

During the reporting period 18 ANCs have been reported to ensure the safe birth of the child and also regular check-up (Blood pressure, Hemoglobin test, weight etc) are conducted of pregnant women, out of which 35 deliveries are institutional.

ANC /PNC CASES STATUS IN DIFFERENT LOCATION

LOCATION	ANC CASES REGISTERED	INSTITUTIONAL DELEIVEREY REPORTED	HOME DELEIVERY REPORTED	ON GOING ANC
SOW-Agucha	18	3	0	15

NANDGHAR HEALTH CHECKUP

This is an component of our promotive health care. In association with Nandghars (Modern ICDS centres) we are regularly tracking and monitoring the natural growth of rural children in their pre schooling phase. This growth monitoring includes both physical and mental growth measurement of Nandghar children. We track physical growth through BMI (By checking Height & Weight) and mental growth by focused interaction and organizing specific sessions among the children.

LOCATION	NANDGHAR CHILDREN MALNUTRITION		MALNUTRITION	MTC REFERRAL
LOCATION	COVERED	COVERED	CASES	WITC REFERRAL

Formatted: Not Highlight

SOW-Agucha	12	147	18	0

Case Study:

Name: Sanu Khan

Husband: Raju Khan

Age: 33 years

Case: Ante Natal Care (Pre-delivery)

Duration of Care: 8 months

Location: Parashrampura, Bhilwara, Rajasthan



Mrs. Sanu Khan, Residence of Parashrampura, Rajasthan. She is in pregnancy phase since last 9 months. When she got registered with nearest ICDS Centre, she came to know about our ANC health care in collaboration with ICDS, under which we organize regular health checkup camp for the pregnant women. Sanu Khan has come under our service since 8 months. She is benefiting by required checkups and receiving the medicines as Iron Folic Acid Capsules, Multi Vitamin Syrup etc. for improvement of her health status. Our community mobilizer & ANM also conduct frequent home visits and provides counselling & guidance as per the instructions of medical officer. We made her aware about the necessary precautions and practice which should be followed in this phase.

Ms. Sanu Khan and her husband both are very happy to receive such service from Smile on Wheels at their door step level, they always provide positive feedback to us, which encourage our team to bringing out optimum service at community level. Here is a small video bite of Sanu Khan's words: https://drive.google.com/open?id=1ai2ChtMv1BGl1ICq1SFG8XoJffkUdjhg



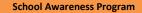


Glimpses of the Reporting period: -

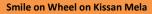




Nandghar Health Checkup









Mother & Child Care

Thank you so much for your Support









SMILE ON WHEELS

QUARTERLY PROGRESS REPORT

(January 2020 to March 2020)



Submitted to:

Submitted by:

Hindustan Zinc Ltd

Smile Foundation

BACKGROUND OF THE PROJECT

Smile Foundation is a national level development organization formed in the year 2002. Currently benefitting more than 750,000 underprivileged children & youth, it directly reaches more than 200 welfare projects through initiatives in education, healthcare, livelihood and women empowerment across 25 states of India.

Under health intervention, Smile Foundation aims to improve access to essential health services through delivering doorstep medical care facilities to vulnerable and marginalized sections thereby providing accessible health services to the target population, aiming to attain a holistic healthy society. Considering the lagging health status of rural and urban slum population of India, Smile Foundation initiated **Smile on Wheels** program in 2006.

Smile on Wheels is a multi-centric project with an objective of providing a comprehensive range of health care services to under-privileged community in remote rural areas and slums through an equipped mobile medical van. The programme is based on the innovative concept of "Community centric sustainable health delivery model".

Impact/Highlights

- 4572 beneficiaries were treated through 130 OPDs.
- 2118 of the beneficiaries were Male 1897 beneficiaries were Females and the rest 557 beneficiaries were children.
- Overall 147Point of Care (POC) tests were conducted
- 26 IEC Meetings conducted to increase community participation in issues concerning health.

PROJECT INTERVENTIONS

Mobile Health Clinics (OPD)

The mobile hospitals provide OPD- curative services for common ailments, ante and postnatal services, counseling on immunization (mother and child), dressing of wounds, Rapid Test (blood & urine), referral services for tertiary care

Sr. No.	Month	No. Of camps	No. Of beneficiaries
1.	January 20	40	1626
2.	February 20	48	1510
3.	March 20	42	1436
7	ГОТАL	130	4572

, free distribution of medicines and IEC activities to the targeted population particularly women and children in need. Details on each above mentioned activity is showcased in following section of the report.

BENEFICIARIES DETAILS:

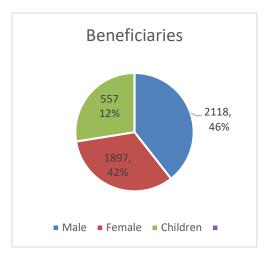
The main goal of Smile on Wheels is to serve the most underprivileged section of the community. The work does not end by reaching the most under-served area, rather starts and thus keeping into mind the domains of accessibility and affordability for the community, Smile on Wheels serves the urban slums.

Below are the table and graph showing the detailed beneficiaries covered during the reporting period comprises total 4572 Beneficiaries in which 2118 are Adult Male and 1897 are Adult Female & 557 are children and 0 are Transgender.

Beneficiaries Details							
Month/Location	Male	Female	Children	TG	Total		
January 20/HZL-Agucha	693	689	244	0	1626		
February 20/HZL-Agucha	734	614	162	0	1510		
March 20/HZL-Agucha	691	594	151	0	1436		
Total	2118	1897	557	0	4572		

Gender Wise Detail of Beneficiaries:

Over the past decade, gender equality has been recognized as key not only to the health of nations, but also to their social and economic development. Women are those who are unable to obtain quality health care by virtue of barriers that contribute to health care inequities. As a result of this unequal social order, women are usually relegated into positions where they are not only more vulnerable to suffering from health problems, but also less able to have access and control over healthcare resources than men. For this reason the focus group of this project has been women and children as they constitute the vulnerable section of



society. It is evident from the table and chart the project has been successful in achieving its goal 1897 of the beneficiaries were women and while the rest 2118 were male.

SI. No.	Month	Male	Female	Total
1	January 20	693	689	1382
2	February 20	734	614	1348
3	March 20	691	594	1285
TOTAL		2118	1897	4015

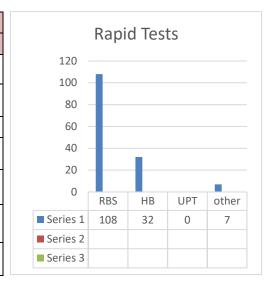
POINT OF CARE TESTS:

Point of Care Tests (POC) or Rapid Test is another important tool during OPD of Smile on Wheels to benefit people. Normally, any POC tests which often comes with the Health Check Up and are highly needed for a proper diagnosis, disturbs the overall expense he/she plans for the month. In most of the case it cost major portion of the total medical cost. POC Test in SoW gives advantage to the Health Care services in SoW as it leads one

LAB TEST BIFURCATION						
Type of Test	Jan 20	Feb 20	Mar 20			
НВ	10	4	18			
RBS	19	45	44			
Malaria	0	0	1			
Dengue	0	0	0			
UPT/Pregnancy	6	0	0			
Chikengunia	0	0	0			
ECG	0	0	0			

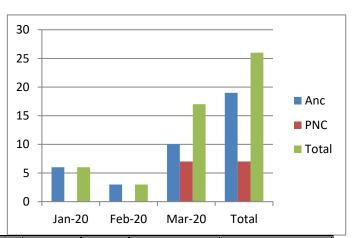
step ahead to understand the patients and in diagnosing prevailing diseases. The below table shows the POC test done during the reporting period and the table & graph below shows extended details:

LAB TEST BIFURCATION							
Type of Test	Total	Positive/Abnormal	Negative/Normal				
НВ	32	14	18				
RBS	108	31	77				
Malaria	1	0	1				
Dengue	0	0	0				
UPT/Pregnancy	0	0	0				
Chikanguniya	0	0	0				
others	6	4	2				



ANC/PNC Details:

Access to antenatal care (ANC) and postnatal care (PNC) services has a great deal of impacts on major causes of infant death and significantly affects trends of mortality in a population. Antenatal care may play an indirect role in reducing maternal mortality by encouraging women to deliver with assistance of a skilled birth attendant or in a health facility.



Sr.No	Name	Age	ANC/ PNC	Month of Pregnancy	Month of Visit	Date of Visit	Trimester	Current Status 1. Tracking 2. Delivery 3. MTP 4. Other(Specify)
1	<u>Kali</u>	27 Years	ANC	3	Jan	14 Jan 2020 11:24	1st Trimester	Tracking

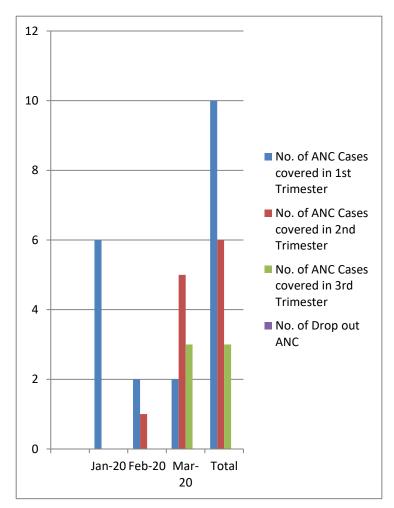
2	<u>Kailashi</u>	25 Years	ANC	3	Jan	14 Jan 2020 11:27	1st Trimester	Tracking
3	<u>Kailashi</u>	22 Years	ANC	3	Jan	14 Jan 2020 11:33	1st Trimester	Tracking
4	<u>Samta</u>	24 Years	ANC	3	Jan	14 Jan 2020 12:24	1st Trimester	Tracking
5	<u>Sanju</u>	27 Years	ANC	3	Jan	14 Jan 2020 12:25	1st Trimester	Tracking
6	MEHARUNBANU	23 Years	ANC	1	Jan	24 Jan 2020 11:27	1st Trimester	Tracking
7	<u>Sema</u>	25 Years	ANC	3	Feb	10- 02- 2020	1st Trimester	Tracking
8	<u>Mamta</u>	25 Years	ANC	3	Feb	24- 02- 2020	1st Trimester	Tracking
9	<u>Mamta</u>	25 Years	ANC	5	Feb	10- 02- 2020	2 nd Trimester	Tracking
10	<u>Sewali</u>	24 years	ANC	2 nd Trimester	Feb	26-2- 2020	2 nd Trimester	Tracking
11	<u>Durga</u>	24 years	ANC	2 nd Trimester	Feb	26-2- 2020	2 nd Trimester	Tracking

12	<u>Kailashi</u>	26 Years	ANC	3rd Trimester	Feb	26-2- 2020	3rd Trimester	Tracking
13	<u>Anshuya</u>	26 Years	ANC	3 rd Trimester	Feb	26-2- 2020	3 rd Trimester	Tracking
14	<u>Manju</u>	20 Years	ANC	3rd Trimester	March	6-3- 2020	3rd Trimester	Tracking
15	<u>Kanchan</u>	28 Years	ANC	1st Trimester	March	12-3- 2020	1st Trimester	Tracking
16	<u>Sunita</u>	22 Years	ANC	2 nd Trimester	March	12-3- 2020	2 nd Trimester	Tracking
17	<u>Manju</u>	28 Years	ANC	1 st Trimester	March	12-3- 2020	1 st Trimester	Tracking
18	<u>Sheela</u>	29 Years	ANC	2 nd Trimester	March	12-3- 2020	2 nd Trimester	Tracking
19	<u>Mamta</u>	25 Years	ANC	2 nd Trimester	March	14-3- 2020	2 nd Trimester	Tracking
20	<u>Jashoda</u>	25 years	PNC		March	12-3- 2020		Delivery

21	<u>Soniya</u>	25 Years	PNC	March	12-3- 2020	Delivery
22	<u>Meera</u>	27 Years	PNC	March	12-3- 2020	Delivery
23	<u>Meera</u>	26 Years	PNC	Feb	26-2- 2020	Delivery
24	<u>Shanta</u>	27 Year	PNC	Feb	26-2- 2020	Delivery
25	<u>Nagina</u>	26 Year	PNC	Feb	26-2- 2020	Delivery
26	<u>Santosh</u>	26 Years	PNC	Feb	26-2- 2020	Delivery

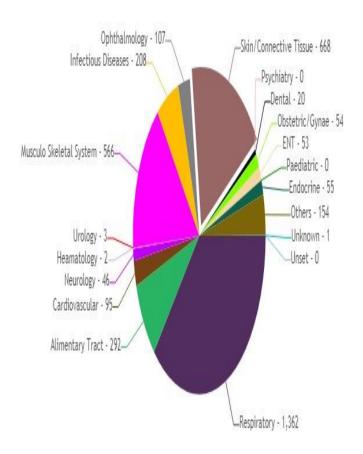
Mont h	HB Nor	mal		HB orma I	HB To tal	Fluc	3P tuati on	BP N	Iormal	BP Total	No. of ANC	No. of ANC	No. of	N o. of
	No.	%	N o.	%		No ·	%	No.	%		case s cover ed in 1st Trim ester	Cases covere d in 2nd Trimest er	ANC Cases covered in 3rd Trimester	Dr op ou t A N
Jan 20	3	50%	3	50%	6	0	0%	6	100%	6	6	0	0	0
Feb 20	3	100%	0	0%	3	0	0%	3	100%	3	2	1	0	0
Marc h 20	16	99%	1	1%	17	0	0%	17	100%	17	2	5	3	0

STATUS	Jan 20	Feb 20	Mar 20	Total
No. of Old ANC/PNC	0	0	7	7
No. of New ANC/PNC	6	3	10	19
Total ANC/PNC	6	3	17	26
Home Delivery	0	0	0	0
Private Hospital	0	0	0	0
Govt Hospital	0	0	7	7
Total Institutional Deliveries	0	0	7	7
Medical Termination of Pregnancy	0	0	0	0
Live Birth	0	0	7	7
Still Birth	0	0	0	0



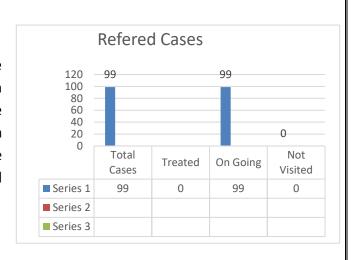
Disease Pattern:

There were various major diseases which were prevailing on ground and have been treated by SOW during this reporting period, the limpidity towards the prevailing diseases and their symptoms during particular period or season are noticeable, which gives the fair idea to bring sensitivity and awareness in the targeted urban slums in all the project locations. Initially it was found that people are less aware or not at all aware towards the disease pattern but with the help of the data which is given below in the table initiated us to bring awareness in the group of society to help them be precautious and raise sensitivity towards preventive health care. Disease pattern also helps us to mark out the medicines flow at particular period or season at the location areas.



<u>REFERRALS:</u>

An effective referral system ensures a close relationship between all levels of the health system and helps to ensure people receive the best possible care closest to home. A good referral system can help to ensure: patients receive optimal care at the appropriate level, hospital facilities are used optimally.



Quarterly Progress Report – Jan to March 2020

Referred for	Jan 20	Feb 20	March 20	Total
(Please mention Name of				
Department)				
ENT	0	0	1	1
Medicine				
Surgery				
Gynecology	0	0	1	1
Pediatrician				
Ophtogolist/Eye	12	14	15	41
Orthopedics				
Dermatologist	1	1	0	2
Dentist	0	0	1	1
Radiologist				
Dialectologist	0	1	0	1
Gastrologist				
Urologist				
Cardiologist				
Others				
DOTS				
Higher Health Facility				
PHYSICIAN				

Month	Total no. of beneficiary referred to Higher Health care Facility	Total no. of Beneficiary reported back their status at SoW	Total no. of Beneficiary "Treated"	Total no. of Beneficiary "Treatment On Going"	Total no. of Beneficiary "Not visited"	Total no. of Beneficiary "Status not known"
Jan 20	29	0	0	29	0	0
Feb 20	37	0	0	37	0	0
Mar 20	33	0	0	33	0	0

IECs:

Smile Foundation organizes Information, Education and Communication (IEC) activities under Smile on Wheels mobile hospital programme with the aim to increase the 'health seeking behavior'

It is important to hear from those whom we serve, because it is they are the ones that should know the means to come out with the solutions for the problem they are in. With the help of SOW team we are achieving the goal through different levels of community meetings, Health Talks.

No. of IEC activity conducted	No. of participants	Topic covered
1	150	Personal Hygiene
1	55	World Cancer Day
24	1354	Awareness of Corona Virus
26	1559	Total





World Cancer Day Celebration

Quarterly Progress Report – Jan to March 2020





Awareness on Corona Virus

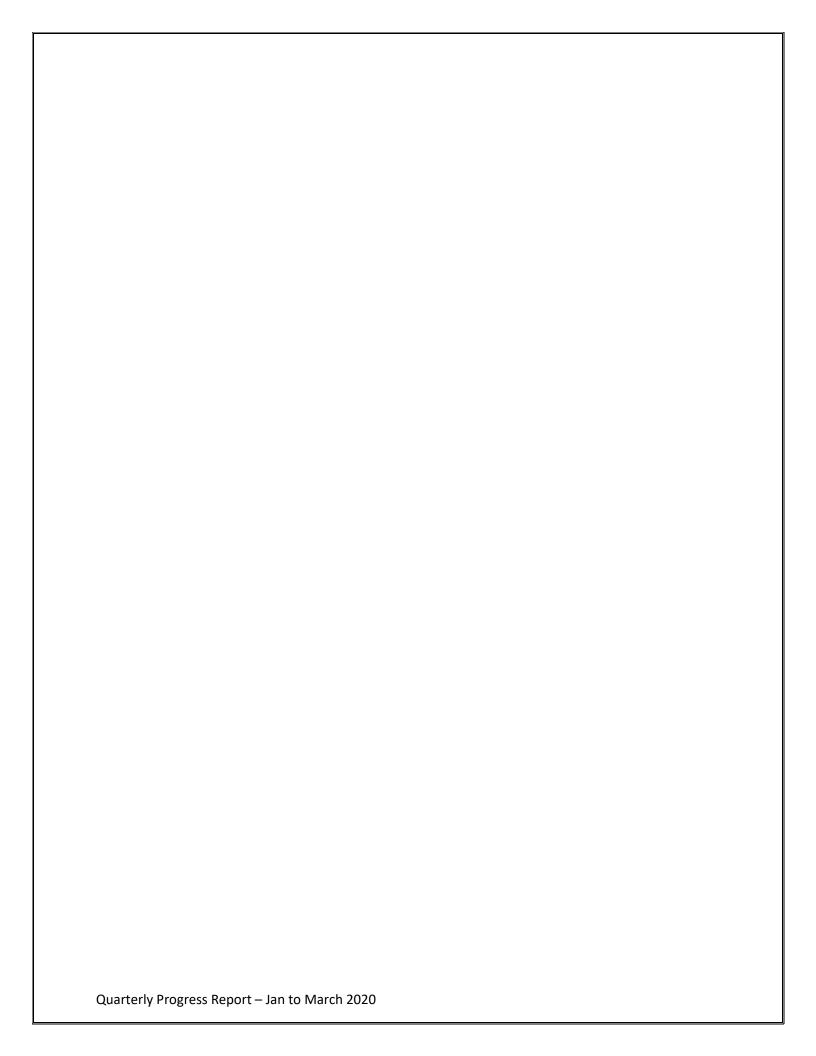
ARENESS CAMP PRINCIPLO SI UTI A PROPERTY VALUE AND AREA OF THE PROPERTY OF THE

Awareness on Personal Hygiene

Awareness on Corona Virus



News on IEC on Corona Virus



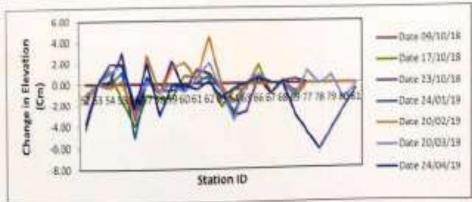
FINAL REPORT

Project No: SSP/N/293/2018-19

EVALUATION OF WASTE DUMP STABILITY THROUGH SLOPE MONITORING AT RAMPURA-AGUCHA OPENCAST MINE

For: M/S HINDUSTHAN ZINC LIMITED (VEDANTA), UDAIPUR







CSIR-CENTRAL INSTITUTE OF MINING & FUEL RESEARCH (Council of Scientific & Industrial Research) Regional Centre, 17/C, Telenkhedi Area, Civil Lines, Nagpur - 440 001

June, 2019

Annexure -XXII



Truck mounted cavum road sweeper

Annexure-XXIII

Blast vibration data (Monitoring at UG)						
Date	Blast location (stope)	Monitoring location	Radial distance (m)	MCPD (kg)	PPV (mm/s)	Frequency (Hz)
7-Mar-20	-255L_N82	-255L_N8 MH	120	132	10.7	120
10-Mar-20	-130l_N22A	-255L_N8 MH	126	150	6.5	102
11-Mar-20	-255L_N517	-255L_N MH	510	132	2.2	81

Peak particle velocity



Member Secretary

भारत सरकार केन्द्रीय भूमि जल प्राधिकरण जल संसाधन मंत्रालय

Government of India Central Ground Water Authority Ministry of Water Resources

CGWA/IND/Proj/2013-5 -R

Dated :-

0 8 JUL 2013

No.21-4(2)/WR/CGWA/2005- 1205

To.

M/s Hindustan Zinc Ltd., Rampur Agucha Mine PO Agucha, District Bhilwara-311029 Rajasthan

Sub:- Renewal of NOC for ground water withdrawal to M/s Hindustan Zinc Ltd., in respect of their existing mining project at Rampura Agucha Mine, Kotri Block, District Bhilwara, Rajasthan – reg

Sir,

Kindly refer to letter No. HZL/RAM/ENV/2013 dated 25.2.2013 on the above cited subject. Based on recommendations of Regional Director, CGWB, Western Region, Jaipur vide his office letter No. TS/21B(5)/CGWAWR/05-07-119-30 dated 22.3.2013 and subsequent letter dated 2.5.2013 and further deliberations on the subject, the further renewal of NOC issued vide this office letter of even no. dated 13.5.2008, is hereby accorded to M/s Hindustan Zinc Ltd., in respect of their existing mining project at Rampura Agucha Mine, Kotri Block, District Bhilwara, Rajasthan. The renewal is however subject to the following conditions:-

 The firm may continue to abstract 11,700 m³/day of ground water through existing radial wells/tubewells only. No additional ground water abstraction structures to be constructed for this purpose without prior approval of the CGWA.

Monitoring of the ground water extraction through wells to be continued through water meter by the industry at its own cost on regular basis, at least once in a month. The ground water quality to be monitored twice in a year during pre monsoon and post monsoon periods

 M/s Hindustan Zinc Ltd., shall, in consultation with the Regional Director, Central Ground Water Board, Western Region, Jaipur implement ground water recharge measures as proposed for augmenting the ground water resources under intimation to this office.

> West Block - 2, Wing - 3, Sector - 1, R.K. Puram, New Delhi - 110066 Tel : 011-26175362, 26175373, 26175379 • Fax : 011-26175369 Website : www.cgwb.gov.in, www.mowr.gov.in

स्वका सुरक्षित जल - सुन्वर खुशहाल कल CONSERVE WATER - SAVE LIFE





Date: April 4, 2018

To

The Regional Director, Central Ground Water Board, Western Region, 6-A, Jhalana Doongri, JAIPUR

Sub: Request for renewal of Ground water withdrawal from existing Radial well at Banas River bed for M/s Hindustan Zinc Limited Rampura Agucha Mine.

Ref. CGWA letters dated 08/07/2013 regarding renewal of NOC vide No. 21-4(2)/WR/CGWA/2005-1205 dated 08/07/2013.

Sir

As per the condition No. 9 of the above mentioned NOC, "the renewal is valid for five years from date of issuance of the letter. Upon review of status of compliance of the conditions after five years, decision for revalidation of approval to be considered."

Accordingly, renewal form and compliance status of the conditions are attached herewith. It is to submit further that compliance of all the conditions stipulated in the NOCs is ensured.

Therefore it is humbly requested that this renewal for existing permission of drawl of 11700m3 /day ground water from the existing radial well to enable us to run our mine and beneficiation plant. We have deposited the processing fees of Rs. 500/- through "bharatkosh.gov,in" vide transaction reference No. 0404180001535 dated 04.04.2018. Copy of the same is attached herewith.

Your Faithfully

(Rajendra Prasad Dashora)

Site President

CC to: Member Secretary, Central Ground Water Authority West Block-2, Wing-3 Sector-1, R.K. Puram, NEW DELHI-110066 केन्द्रीय पूर्व-जल प्राचिकरण प्राटकारी होत्र सम्प्रपुर जन्म तं (अप्राप्ति) डायरी विनाक

Hindustan Zinc Limited

Rampura Agucha Mines, P.O. Agucha, Dist. Bhilwara (Rajasthan) - 311 022 M+91-9001294956-57, F+91-1483 229012 www.hzlindia.com

Registered Office: Yashad Bhawan, Udaipur (Rajasthan) 313 004 CIN No. L27204RJ1966PLC001208



Member Secretary



भारत सरकार केन्द्रीय भूमि जल प्राधिकरण जल संसाधन मंत्रालय

Government of India Central Ground Water Authority Ministry of Water Resources

CGWA/IND/Proj/2013-6 -R

Dated :- 8 JUL 2013

No.21-4(2)/WR/CGWA/2005- \2 C\1

To,

M/s Hindustan Zinc Ltd. Rampur Agucha Mine PO Agucha, District Bhilwara-311029

Sub:- Renewal of NOC for ground water withdrawal to M/s Hindustan Zinc Ltd., in respect of their existing mining project at Rampura Agucha Mine, Village Agucha, Tehsil Hurda, District Bhilwara, Rajasthan - reg

Kindly refer to letter No. HZL/RAM/ENV/2013 dated 25.2.2013 on the above cited subject. Based on recommendations of Regional Director, CGWB, Western Region, Jaipur vide his office letter No. TS/218(5)/CGWAWR/05-07-119-30 dated 22.3.2013 and subsequent letter dated 2.5.2013 and further deliberations on the subject, the further renewal of NOC issued vide this office letter of even no. dated 6.8.2008, is hereby accorded to M/s Hindustan Zinc Ltd., in respect of their existing mining project at Rampura Agucha Mine, Hurda Block, District Bhilwara, Rajasthan. The renewal is however subject to the following conditions: renewal is however subject to the following conditions -

The firm may continue to abstract 250 m³/day of ground water from mine pit. No additional ground water abstraction structures to be constructed for this purpose without prior approval of the CGWA.

Monitoring of the ground water extraction through wells to be continued through water meter by the industry at its own cost on regular basis, at least once in a month. The ground water quality to be monitored twice in a year during pre monsoon and post mionsoon periods.

M/s Hindustan Zinc Ltd., shall, in consultation with the Regional Director, Central Ground Water Board, Western Region, Jaipur implement ground water recharge measures as proposed for augmenting the ground water resources under infimation to this office.

The firm shall continue to execute ground water regime monitoring programme in

The firm shall continue to execute ground water regime monitoring programme in and around the project area through plezometers on regular basis in consultation with the Central Ground Water Board, Western Region, Jaipur.

West Block - 2, Wing - 3, Sector - 1, R.K. Puram, New Delhi 110066 Tel - 011-26175362, 26175373, 26175379 - Fax : 011-26175369

Website: www.cgwb.gov.in, www.mowr.gov.in

स्तक मुप्रक्षित जल शुल्पन खुशहाल पाल CONSERVE WATER - SAVE LIFE

CGWA NOC





Ref.: HZL/RAM/Env/2016-17

April 28, 2016

To, The Regional Director, Central Ground Water Board, Western Region, 6A, Jhalana Doongari, Jaipur- 17

Sub.: Renewal of NOC for Ground water intersection from mine pit.

Ref: CGWA renewal letter No 21-4(2)/WR/CGWA/2005-1204 dated 08/07/2013 for ground water intersection & withdrawal of 250 m3/day ground water from the mine " pit.

Sir.

Please find herewith the renewal application for NOC of ground water intersection & withdrawal of 250 m3/day from the mine pit.

Thanking you,

Yours Singerely.

(Praveen Jain) Locaribit Head (Rene Mine)

VP & Location Head

Ce. Hin Member Secretaryited
Res Central Ground Witters Authority West Block-2, Wings 3Ral.)

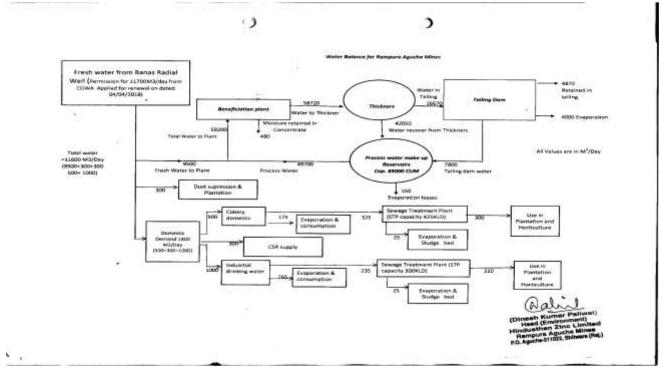
Sector-1, R.K. Puram,

NEW DELHI-110066

Hindustan Zinc Limited

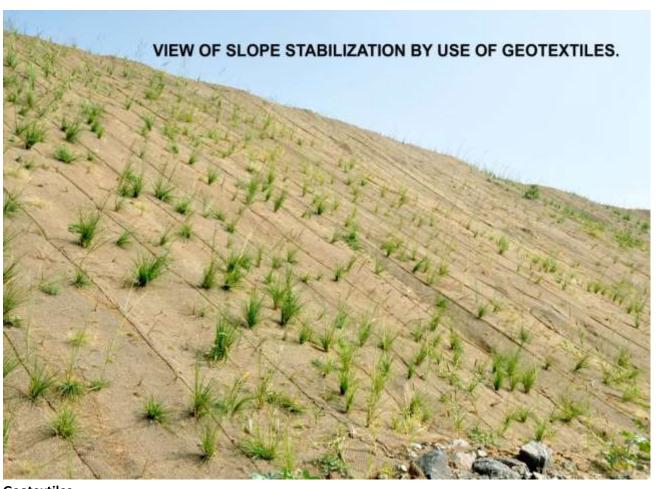
Rampura Agucha Mine, P.O. Agucha, Dist-Bhilwara – 311029 Tel.: (91-01483)225837,229018 Fax: (91-01483)229012,www.hzlindia.com Registered Office: Yashad Bhawan, Udaipur (Rajasthan) - 313 004

Annexure-XXIX



Water Balance

Annexure XXX



Geotextiles





Mine code: 270020

RA Mine/VTC/F.18/2020/ 2399-2401

Dated: 24.01.2020

To

1. The Director General of Mines Safety Office of DGMS Barwa Road DHANBAD JHARKHAND PIN: 826001

2. The Dy Director General of Mines Safety Office of DGMS, North Zone Room No 201-3, Block -B, CGO Complex HAPUR ROAD, KAMLA NEHRU NAGAR GAZIABAD - UP PIN: 201002

3. The Director of Mines Safety Office of DGMS Anasagar Link Road AJMER, RAJASTHAN PIN: 305001

Sub.: Submission of Annual Return in Form "T" for the year 2019

Sir,

Please find enclosed the Annual Return Form "T" for the year ending 31st December- 2019, in respect of Rampura Agucha Mines of Hindustan Zinc Limited.

Enclosed as above

Thanking you

Sincerely yours

Mine Manager (Vinod Jangir) Hindustan Zinc Limited Rampura Agucha

"Mine Manager ead and Zinc Underground Mines Post-Agucha-311022 Distt.-Bhilwara (Raj.)

Hindustan Zinc Limited

Rampura Agucha Mines, P.O. Agucha, Dist. Bhilwara (Rajasthan) - 311 022 M +91-9001294956-57, F +91-1483 229012 www.hzlindia.com 0/6

Registered Office - Yeshad Bhawan, Udaipur (Rajasthan) 313 004 CIN No. L27204RJ1946PLC001208

[FORM - T]

[See Rule 29P (i)]

Annual Return for the year ending on the 31st December - 2019

1. Name of Mines

Rampura Agucha Mines.

2. Postal address of Mines

M/S Hindustan Zinc Limited, Rampura Agucha Mines P.O. Agucha – 311022 Dist. Bhilwara (RAJ.)

3. Date of opening of Mine

15.01.2010

4. Date of closing (if closed)

Not applicable

5. Situation of Mine (District/State)

Bhilwara/Rajasthan

6. Name of Owner, Postal address

Sh. Sunil Duggal CEO & Whole time Director.

Hindustan Zinc Limited Yashad Bhawan, UDAIPUR - 313004

7. Number of person medically examined:

Type of ME	LUCKET DATE POSTER CO. L. STOLLE STOLL	rsons required to be ined during 2019	Number of persons Medically examine during 2019		
	OWN	CONT	OWN	CONT	
IME	As per	requirement	0	948	
PME	162	654	162	654	

 Number of persons declared Medically unfit

NIL

NIL

Categorization of the persons Declared unfit

Certified that the information has been given above, is correct to the best of my knowledge.

Date:24.01.2020

Signature: .

Name : (Vinod Jangir)

Designation: "Mine Ming Manager

Hindustan Zinc Limited Rampura Agucha Lead and Zinc Underground Mines

Post-Agucha-311022 Distt.-Bhilwara (Raj.)

Annexure-XXXII



Covered conveyer belt



HINDUSTAN ZINC LTD



REPLY AT: HEAD OFFICE YASHAD BHAWAN. UDAIPUR - 313004 CONTACT To: Seema Jain PHONE:+911483245270, FAX: MAIL:Seema Jain@vedanta.co.in

SERVICE ORDER

PO No.: 2353084587 / 5100027984 Date: 07.04.2020

CSIR-Central Institute of Mining an d Fuel Research

Dhanbad

826015 DHANBAD

INDIA

Vendor: 21078 Phone: 91-03262296023 EMAIL: director@cimfr.nic.in

GST Registration No.: 20AAATC2716R1ZT

HZL is pleased to release this order subject to following terms & conditions:

1. Scope of Work:

Numerical modelling for prediction of subsidence on the surface and on the open pit floor on account of planned underground stoping till the explored depth of the orebody.

Refer annexure-II for Vehicle & Driver Movement at HZL

Contract Period: From 01.05.2020 to 30.04.20211 year as per HZL requirement

3. Contract Price: 2,596,000.00

TWENTY FIVE LAKH NINETY SIX THOUSAND Rupees

Freight term: PAID basis

Insurance: In Suppliers Account Packing & Forwarding: Inclusive Tax - GST extra if applicable

Total annual order value shall be Rs. 22,00,000 + GST.

travel charges & L&B will be arrange by HZL.

- 4. Payment Terms: 100% advance payment against submission of Performa Invoice
- 5. Security Deposit:

Regd office, Yashad Bhawan, Swaroop Sagar, Udaipur - 313001.

Page 1 of 13.

PO No.: 2353084587 / 5100027984 /07.04.2020

The security deposit is not applicable.

6. SD-Cum-PBG:

SD-Cum-PBG is not applicable.

7. Liquidated Damage:

The Liquidated Damage is Not Applicable.

8. Details Of Articles

Sr No	Service Code Detailed description of Service	SAC Code	Rate	Qty.		Unit Amount	Del.Date
00010	1		2,200,000.0	00	1	AU	30.04.2021
Numer	ical Modelling Subsidence study	UG					
	Price	22	00.0000		22	00.00000	
	Total	25	96000.00		25	96000.00	
The Ite	an covers the following Services:	129899	P007/H001/05/17			**************************************	
	7599090020 STUDY MONITOR F/PIT&DUMP	998343 SLOPE	2,200,000.0	0	1	LSM	2,200,000.00
F F	Deliver to: CAMPURA AGUCHA MINES P.O. AGUCHA - GULABPURA Campura, DIST. BHILWARA 11029						

MAY PLS REFER THE BELOW RELEVANT REGISTRATION DETAILS IN YOUR INVOICES

Plant: 3000 :-RAMPURA AGUCHA MINES GST No : 08AAACH7354K1ZB PAN No :

2,596,000.00

Please dispatch material only after creation of Advance Shipping Notification (ASN) and send print out of the ASN alongwith the documents being sent.

GENERAL TERMS & CONDITION ANNEXURE I

(TWENTY FIVE LAKH NINETY SIX THOUSAND Rupees)

1.1 Definitions:

INR

Total

In construing the Agreement, the following words and expressions shall have the meanings hereby assigned to them:

- 1.1.1 #Affiliate# shall mean with respect to any person, any other person that, directly or indirectly, controls, is controlled by or is under common control of such specified person. For the purposes of this definition, #control# means the direct or indirect beneficial ownership of more than fifty percent (50%) of the issued share capital, stock or other participating interest or the legal power to direct or cause the direction of the general management, of the company, partnership or other person in question, and #controlled# shall be construed accordingly;
- 1.1.2 #Agreement# shall mean the Purchase Order and the Seller#s acceptance of the Purchase Order.
- 1.1.3 #Applicable Law# shall mean all national (or state) legislation, statutes, ordinances, regulations and by-laws of any legally constituted public authority, in India, having the force of law.
- 1.1.4 #Claims# shall mean all claims, liabilities, costs, damages and expenses (including court costs and legal fees)
- 1.1.4 #Conditions# shall mean these General Terms and Conditions as provided under this document.
- 1.1.5 #Effective Date# shall mean the date of the Purchase Order,
- 1.1.6 #Goods and Service Tax# means the Central Goods and Service Tax Act, 2017, the Integrated Goods and Service Tax Act, 2017, the Union Territory Goods and Service Tax Act, 2017, the Goods and Service Tax (Compensation to States) Act 2017, the applicable State Goods and Service Tax Act as passed by the concerned State and all the rules made thereunder, relevant notifications, circulars, clarifications and orders issued thereunder and any amendments made thereto and any reference to Goods and Service Tax payable or cess payable means tax payable under any of the aforementioned laws.



Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695Fax: 0141-5159697

> website: www.rpcb.nic.in Registered

File No

F(Mines)/Bhilwara(Hurda)/1(1)/2009-2010/ 4792

Order No 2009-2010/Mines/401

Date: 21/1/2010

M/s Hindustan Zinc Limited

(Rampura Agucha Mine), P.O.- Agucha, Bhilwara,

District : Bhilwara

Sub: Grant of Consent to Establish under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981 and under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for your Major Mineral Mine at near Village-Agucha, Tehsil-Hurda, District- Bhilwara (M.L.No.-1/2000).

Ref:

(i) Your applications dated 22/11/2009

(ii) Received on 27/11/2009

Sir,

In view of the details submitted vide your above referred applications/ documents, the Consent to Establish under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981 and under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 is hereby granted for carrying mining activities. This consent is subject to the following stipulations:-

- 1 That this consent is being granted in favour of M/s. Hindustan Zinc Limited, a Major Mineral having M.L.No.-1/2000 in an area measuring 1200 Hectares at/near Village-Agucha ,Tehsil-Hurda,District-Bhilwara.
- 2 That this consent is valid for a period from 18/01/2010 to 17/01/2013, or commencement of production whichever is earlier.
- 3 That this consent is valid for following mining activities :-

Mineral		Permitted Mining Capacity	
1	LEAD ZINC ORE MINING	6.150 MILLION TONNES PER ANNUM	
2	BENEFICIATION PLANT FOR LEAD - ZINC ORE	6.500 MILLION TONNES PER ANNUM	

That you shall achieve following standards in ambient air in mine area / mining

Pollutant	Standards for Ambient Air	Standards for mining activity
SPM	500 µg/M³	SPM = 600 μg/M ³
80 15	120 µg/M³	(To be measured between 3
NOx	120 µg/M³	to 10 meters from mining
со	5000 μg/M³	activity)



Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695Fax: 0141-5159697 website: www.rpcb.nic.in

Registered

File No F(Mines)/Bhllwara(Hurda)/1(1)/2009-2010/

Order No 2009-2010/Mines/401

Date:

- 5 That the Mining unit shall maintain zero discharge status of waste water from the premises. No trade effluent shall be discharged inside/outside mine premises.
- 6 That the occupier/operator of mine shall ensure that all the conditions imposed in the Environmental Clearance granted by the Ministry of Environment & Forests, Government of India., vide letter No J-11015/267/2008-IA.II (M) dated 11/12/2009 shall be strictly complied with.
- 7 That the occupier/operator of mine shall ensure that all the conditions imposed in the permission of Central Ground Water Authority granted vide its letter No 21-4(2)/WR/CGWA/2008-632 & 21-4(2)/WR/CGWA/05-417 dated 06/08/2008 & 13/05/2008 shall be strictly complied.
- 8 That you shall not operate the mine without obtaining Consent to Operate from the
- 9 That this Consent to Establish is for mining of product as mentioned above in M.L.No.-1/2000 and a separate Consent to Establish is required to be taken for Mineral Separation Plant/process if any and for any addition/ modification/ alteration or change in process.
- 10 That the lessee shall develop plantation in atleast 33% of the total lease area to maintain ambient air quality around the mine and the Action Plan for plantation submitted by you, shall be implemented.
- 11 That you will implement all the pollution control measures as per EIA/EMP Report.
- 12 That the top soil shall be stored at earmarked site only shall be utilized for plantation on reclaimed OB dumps.
- The ovrburden generated during mining shall be stacked at earmarked site as per Approved Mining Plan & as per recommendations of Central Institute of Mining & Fuel Research, Dhanbad. The over burden dump shall be reclaimed by plantation of suitable native plant species.
- 14 Catch drains/ Siltations ponds of appropriate size shall be constructed to arrest silt and sediments flows from mine pits & overburden dumps. Garland drains of adequate size, properly designed shall be constructed arround the mine pit & dump yard, Garland drain should be provided with siltation pond.
- 15 Regular monitoring of subsidence, vibration shall be carried out & if any subsidences is observed appropriate measures be undertaken to avoid any loss of life and material and be reported to Board.
- 16 That the HZL shall carryout conditioning of mined ore with water to mitigate fugitive dust emission.
- 17 That Ore Beneficiation plant effluent shall be treated upto prescribed standards & tailing slurry shall be transported in close pipe line to talling dam.
- 18 That all other general conditions (1 to 21) enclosed as Annexure shall be strictly complied with.



Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695Fax: 0141-5159697

website: www.rpcb.nic.in Registered

File No

F(Mines)/Bhilwara(Hurda)/1(1)/2009-2010/

Order No 2009-2010/Mines/401

Date:

19 That this Consent is subject to the conditions as stated above and general conditions as stated in Annexure. Further, the mining unit will comply with the provisions of the Air (Prevention & Control of Pollution) Act, 1981 & Water (Prevention & Control of Pollution) Act, 1974 and any such conditions as may be specified from time to time by the State Board under the provisions of the aforesaid Acts.

This bears approval of the competent authority.

Encl: As Above

Yours Sincerely

Jun zmall Group Incharge-Mines

Copy To:-

1 Director, Department of Mines & Geology, Government of Rajasthan, Udaipur...

2 Mining Engineer, Department of Mines & Geology, Government of Rajasthan,

3 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Bhilwara- please ensure compliance of Consent Conditions.

4 Master File, Consent to Establish, Group Mine, Rajasthan State Pollution Control Board, Jaipur.

Group Incharge-Mines



Annexure

Consent to Establish under Air & Water Acts - Mining Units

General Conditions:-

- That this consent shall be subject to the condition that you shall operate the mining activities in the area as per the mining right allowed by the Mining Department in the Mining Lease only.
- That this consent shall be subject to the directions/orders passed in various Mining/Environment related Writ Petitions by Hon'ble High Court and the Hon'ble Supreme Court.
- That you shall provide the necessary infrastructure facilities including equipment for the monitoring of ambient air in accordance with the directions given to you by the Pollution Control Board's officials from time to time.
- 4. That Mining Unit shall undertake the phased restoration, reclamation and rehabilitation of lands as per established practices & procedures (provisions of Mine Closure Plan in case of Major Minerals) affected by prospecting or mining operations and shall complete this work before the conclusion of such operations and the abandonment of prospects or mines.
- That overburden shall be stored in a systematic manner that it does not obstruct the natural drainage pattern of the area. It may be used for back filling. The land shall be identified for disposal of overburden at environmentally compatible site.
- That Mining unit shall strictly comply with the Mining Plan and Eco Friendly Mining Plan as submitted to & approved by the competent authority. (Eco Friendly Mining Plan for Minor Mineral & mining plan for Major minerals & marble, Granite Mines).
- That the water spray and sprinkling system so installed should always be maintained in order to utilize the same for dust suppression.
- That the domestic effluent if any, shall be treated and disposed of with properly designed septic tank followed by soak pit as per prescribed standard.
- That Air Emissions shall conform to the standards prescribed under the Environment (Protection) Act, 1986.
- That noise level shall be kept as detailed below and under no circumstances, it shall exceed the prescribed limit:-

a. Day time

(6.0 AM to 9.0 PM)

75 dB A (leg)

b. Night time

(9.0 PM to 6.0 AM)

65 dB A (leq)

 That this consent should not be treated as NOC or approval for mining in forest area, if any, falling in the lease and relevant permission under provisions of the Forest (Conservation) Act, 1980 shall be obtained from the competent authority.

4, इन्स्टीट्यूशनल एरिया, झालाना डूंगरी, जयपुर

4, Institutional Area, Jhalana Doongri, Jaipur

Phone: 2709980, 2705731, 2707285 PBX 2711263, 2711329, 2711831, 2707938

Fax: 2710647, 2709980, 2704578

- 12. That for Diesel Generator Set, acoustic enclosure/acoustic treatment shall be provided to meet the prescribed norms w.r.t. noise as per the Gazette Notification of Ministry of Environment & Forests dated 02.01.99. Adequate stack height with D.G. Sets shall also be provided and maintained. Noise from the Diesel Generator Sets shall be controlled by providing an acoustic enclosure or by treating the room acoustically. The acoustic enclosure/acoustic treatment of room should be designed for minimum 25 dB (A) Insertion Loss or for meeting the ambient noise standards, whichever is on the higher. The measurement for Insertion Loss may be done at different points at 0.5 metre from the acoustic enclosure/room and then averaged. The Diesel Generator Sets should also be provided with proper exhausts muffler with Insertion Loss of minimum 25 dB (A). The stack height for the Diesel Generator Sets shall be as notified under the EP Act, 1986.
- That the Industry shall comply with provisions of the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and the Hazardous Waste (Management & Handling)Rules, 1989 and related amendments, as applicable.
- That this consent is valid, subject to fulfillment of all the other statutory requirements in other Law/Acts/Rules as applicable.
- That the industry shall submit quarterly compliance of all the above stated conditions to this office.
- That the unit shall submit Water Cess returns in case the water consumption is more than 10 KLD under provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended from time to time.
- 17. That notwithstanding anything contained in this letter of consent, the State Board hereby reserves to it, the right and power under section 21(6) of the Air (Prevention & Control of Pollution) Act, 1981 & under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review anyone/or all the conditions imposed herein-above and to make such variations as deemed fit for the purpose of Air Act & Water Act.
- That this consent, under no circumstances, be construed as conferment of any property or any interest in the lease area. It is only confined for the purpose of regulation of provisions of the Air Act & Water Act
- That any incorrect information submitted in the consent application form shall make the industry liable for legal action under section 38 of the Air Act & under section43of the Water Act.
- That in case of failure to comply with any of the consent conditions stated as above, the consent issued to the industry shall automatically stand revoked without any notice.
- That this Consent will not exempt you from any legal action for the past violations, if any, of the Act/Rules/Notifications/Circulars etc.

(Group Incharge-Mines)



Head Office (Mines)

Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695Fax: 0141-5159697



Registered

File No F(Mines)/Bhilwara(Hurda)/12(1)/2015-2016/1229-1233

Order No 2019-2020/Mines/9959 Date: 25/06/2019

Unit Id : 11,060

M/s Hindustan Zinc Limited

(Rampura Agucha Mine), P.O.- Agucha, Bhilwara,

District : Bhilwara

Sub: Grant of Consent to Operate under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981 and under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for your Major Mineral Mine at near Village-Agucha, Tehsil-Burda, District-Bhilwara (M.L.No-1/2000).

Ref: (i) Your applications dated 30/10/2017

(ti) Received on 30/10/2017

Sir,

In view of the details submitted vide your above referred applications/ documents, the Consent to Operate under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981 and under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 is hereby granted for carrying mining activities. This consent is subject to the following stipulations:-

- 1 That this consent is being granted in favour of M/s. Hindustan Zinc Limited, a Mine of Major Mineral having M.U.No. 1/2000 in an area measuring 1200.0000 Hectares at/near Village-Agucha, Tehsil-Hurda, District-Bhillwara.
- 2 That this consent is valid for a period from 01/03/2018 to 28/02/2023
- 3 That this consent is valid for following mining activities:-

Mineral	Permitted Mining Capacity		
1 Lead & Zinc Ore Mining	6.1500 MILLION TONNES PER ANNUM		

4 That the project proponent will comply with the Standard as prescribed wide the Ministry of Environment, Forest and Climate Change notification no. GSR 826(E) 45 16th November, 2009 with respect to National Ambient Air Quality standards.

Head Office (Mines)



Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695Fax: 0141-5159697

Registered

File No F(Mines)/Bhilwara(Hurda)/12(1)/2015-2016/1229-1233

Order No 2019-2020/Mines/9959 Date: 25/06/2019

Unit 1d : 11,060

- 5 That this consent to establish/consent to operate is only for carrying out mining of mineral/ore and not for any processing/benefication or crushing/grinding of ore/mineral for which a separate application for consent to establish and/or consent to operate should be submitted. The project proponent is required to obtain seprate consent to establish and consent to operate for carrying out mining of other minerals(s), if any or processing/beneficiation of such mineral(s) and for any addition/modification/alteration or change in process.
- 6 That this Consent to Operate is for mining / processing / beneficiation of product as mentioned above in M.L.No.-1/2000 and a separate Consent to Operate is required to be obtained for any other Mineral mining/ processing/ beneficiation Plant/process if any and for any addition/ modification/ alteration or change in process.
- 7 That the mine shall comply with all the conditions of the Environmental Clearance letter no. J-11015/267/2008-IA.II (M) dated 11/12/2009 issued by Ministry of Environment and Forest, Government of India.
- 8 That this consent to operate is valid for Lead & Zinc Ore Mining @ 6.15 million TPA. For any change in product and/or increase in capacity/lease area, the mine has to seek fresh Environmental Clearance, consent to establish & consent to operate.
- 9 That plantation shall be developed so as to cover at least 33% of the total land use for mining and allied activities as given in Approved Mining Plan and shall be maintained at all the time to maintain ambient air quality around the mine.
- 10 That mining operations shall be restricted to above ground water table and should not intersect ground water table. In case of working below the ground water table, prior approval of the Ministry of Environment, Forest& Climate Change and Central Ground Water Authority shall be obtained.
- 11 That the Mine shall comply with all the conditions of NOC granted by CGWA vide letter no. 21-4(258)WR/CGWA/2008-472 dated 28.04.2011.
- 12 That haul roads should be regularly graded and compacted. Regular water sprinkling should be carried out on haul roads to minimize dust generations.
- 13 That adequate measure shall be taken for control of fugitive emissions from the areas prone to air poliution.
- 14 That the total water consumption shall not exceed 2200 KLD without prior consent of the Board and permission from CGWA.
- 15 That the mine shall dispose its domestic waste water in scientific manner to avoid water pollution in and around the lease area.



Head Office (Mines)



Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695Fax: 0141-5159697

Registered

File No F(Mines)/Bhilwara(Burda)/12(1)/2015-2016/1229-1233

Order No 2019-2020/Mines/9959 Date: 25/06/2019

Unit Id : 11,060

16 That no discharge of effluent shall be made within or outside the premises.

- 17 That the mine shall install suitable flow measuring devises/meters on the intake sources of the water and daily record of ground water abstraction and water consumption shall be maintained.
- 18 That the mine shall comply with provision of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.
- 19 That the mine shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the lease area.
- 20 That the mine shall not allow making any obstacles to any natural water flow i.e. natural nallah/steam carrying rain water to any water body.
- 21 That the mine shall not allow unauthorized disposal of any solid waste on land inside or outside the premises.
- 22 That this consent to operate shall be subject to compliance of direction/order passed by Courts of Law in the matter, if any.
- 23 That all other general conditions enclosed as Annexure shall be strictly complied with.
- 24 That this Consent is subject to the conditions as stated above and general conditions as stated in Annexure. Further, the mining unit will comply with the provisions of the Air (Prevention & Control of Pollution) Act, 1981 & Water (Prevention & Control of Pollution) Act, 1974 and any such conditions as may be specified from time to time by the State Board under the provisions of the aforesaid Acts.
- 25 That the grant of this Consent to Operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 26 That the grant of this Consent to Operate shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that species are instituted against you by the State Board for violation of the provisions of the light or the Rules made thereunder.





Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695Fax: 0141-5159697

Registered

File No F(Mines)/Bhilwara(Hurda)/12(1)/2015-2016/1229-1233

Order No 2019-2020/Mines/9959 Date: 25/06/2019

Unit Id : 11,060

This bears approval of the competent authority.

Encl: As Above

Yours Sincerely

Group Incharge-Mines

Copy To:-

1 Director, Department of Mines & Geology, Government of Rajasthan, Shastri Circle, Udaipur...

- 2 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Bhilwara please ensure 100 percent compliance or standard norms and monitor time to time
- 3 Mining Engineer, Department of Mines & Geology, Government of Rajasthan, Shilwara

4 Master File.

rouge Mines



Date: 22/10/2019

Rajasthan State Pollution Control Board

Institutional Area, Jhalana Doongari, Jaipur-302 004
 Phone: 0141-5159600,5159695 Fax: 0141-5159697



Registered

File No : F(CPM)/Bhilwara(Hurda)/2(1)/2019-2020/2498-2500

Order No: 2019-2020/CPM/5547

Unit ld : 11060

M/s Hindustan Zinc Limited

(Rampura Agucha Mine), P.O.- Agucha, Bhilwura, ,

District: Bhilwara

Sub: Consent to Operate under section 25/26 of the Water (Prevention & Control of Pollution)

Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application for Consent to Operate dated 30/10/2017 and subsequent correspondence.

Sir,

Consent to Operate under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder is hereby granted for your Lead Zinc Ore Beneficiation plant situated at PO- Agucha, District- Bhilwara Agucha Tehsili-Hurda District-Bhilwara, Rajasthan, subject to the following conditions:

- 1 That this Consent to Operate is valid for a period from 01/03/2018 to 28/02/2023.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity with Unit
Beneficiation for Lead Zinc Ore	Activity	6.50 MILLION TONNES
	V/ W	PER ANNUM

- 3 That this consent to operate is for existing plant, process & capacity and separate consent to establish/operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.
- 4 That the sources of air emmissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emmissions	Pollution Control	Prescribed		
	Measures	Parameter	Standard	
	55	525	55	





Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur-302 004 Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(CPM)/Bhilwara(Hurda)/2(1)/2019-2020/2498-2500

Order No: 2019-2020/CPM/5547

Unit Id : 11060

Date: 22/10/2019

Primary Crusher New(750TON/HR)	ADEQUATE STACK HEIGHT, Bag Pilter, WATER SPRAYERS, WET SCRUBBER, WITH ADEQUATE STACK HEIGHT	Particulate Matter	150 mg/Nm3
Primary Crusher Old(700TON/HR)	ADEQUATE STACK HEIGHT, Bag Pilter, WATER SPRAYERS, WET SCRUBBER, WITH ADEQUATE STACK HEIGHT	Particulate Matter	150 mg/Nm3
Secondary Crusher(500TON/HR)	ADEQUATE STACK HEIGHT, Bag Filter, WATER SPRAYERS, WET SCRUBBER, WITH ADEQUATE STACK HEIGHT	Particulate Matter	150 mg/Nm3
Two DG Sets(5MW EACH)	ACOUSTIC ENCLOSURE , SAFE STACK HEIGHT AS PER ER IV	CO Particulate Matter NOx NMHC	150 mg/NM3 75 mg/NM3 710 ppm 100 mg/NM3

⁵ That the Lead Zinc Ore Beneficiation plant will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.





Rajasthan State Pollution Control Board

Institutional Area, Jhalana Doongari, Jaipur-302 004
 Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(CPM)/Bhilwara(Hurda)/2(1)/2019-2020/2498-2500

Order No: 2019-2020/CPM/5547

Unit ld : 11060

Date: 22/10/2019

- 6 That this consent to operate is valid for operation of Lead Zinc Ore Beneficiation plant of 6.5 Million Ton Per Annum capacity. The industry has to seek fresh consent to establish for any change in product/by product/process/service/activity and modification/alteration.
- 7 That total capital investment as on 30,09,2017 as per the C.A. certificate submitted by you is Rs. 846.09 Crore which includes the cost of Land, Building, Plant & Machinery and miscellaneous assets.
- 8 That the industry shall comply with all the conditions of Environmental Clearance (E.C.) issued by the Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India, vide letters no. J-11015/267/2008-IA.II(M) dated 11.12.2009.
- 9 That Hazardous Waste as defined under schedule IV of Hazardous & others Waste (Management, and Transboundary Movement) Rules, 2016 shall not be used as raw material without obtaining prior registration & authorization from the State Board.
- 10 That total water consumption/requirement for lead Zinc Ore Benification Plant shall not exceed to 9500 KLD which will be met from Banas Radial Wells.
- 11 That the industry shall comply with all the conditions of CGWA permission/NOC issued by Central Ground Water Authority, Ministry of water resource Govt of India vide letter no. 21-4(2)/WR/CGWA/2005-1205 dated 08.07.2013.
- 12 That water flow meters shall be provided and maintained at all suitable points to measure quantity of water received form Banas redial wells and water consumption for different purposes. Record of the same shall be maintained on daily basis.
- 13 That waste water generated from tailing dam will be reused/recycled completely in mill/process.
- 14 That the industry shall take utmost precaution to cater seepage from tailing dam and ensure complete recycle of seepage water in process only.
- 15 That the industry shall explore & carry out some scientific and technical study with reputed experienced organization in the field for catering of seepage from tailing dam.
- 16 That the industry shall get renewed NOC for abstraction of ground water from CGWA and submit to the State Board.
- 17 That the industry shall re-circulate the decanted water from the tailing dam and shall maintain Zero Discharge Status from tailing dam.
- 18 That the effluent from the ore benefication plant shall be treated to confirm to the prescribed standards and the tailing slurry shall be transported through a closed pipeline to the tailing dam.
- 19 That the Industry shall maintain the stability and safety of the tailing dam as assessed by CWPRS and NIRM.





Rajasthan State Pollution Control Board

Institutional Area, Jhalana Doongari, Jaipur-302 004
 Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(CPM)/Bhilwara(Hurda)/2(1)/2019-2020/2498-2500

Order No: 2019-2020/CPM/5547

Unit ld : 11060

20 That no waste water (domestic & trade effluent) will be discharged inside or outside the factory premises in to a stream or well or sewer or on land in any case

Date:

22/10/2019

and complete zero discharge status shall be maintained.

21 That separate energy meter & hour meter shall be provided and maintained at all the air poliution control measures and record of daily running hours of poliution control measures and daily energy consumption shall be maintained in log book.

- 22 That for the control of fugitive emission guidelines / code of practice as issued by CPCB will be followed.
- 23 That at least four ambient air quality monitoring stations shall be established and maintained for PM-10, PM-2.5, SOx & NOx monitoring.
- 24 That the industry shall maintain stack of adequate height at crusher and air pollution control measures shall be operated regularly and efficiently to achieve the prescribed emission standards as per condition no.4.
- 25 That adequate infrastructure facility for stack emission monitoring shall be maintained at the stack of crushers.
- 26 That stack of adequate height as per norms and acoustic enclosure shall be maintained with two DG Sets of 5 MW KVA each.
- 27 That no additional source of air emission shall be installed without prior consent from the State Board.
- 28 That all the raw materials and products shall be stored in closed sheds.
- 29 That cemented roads shall be provided and maintained properly inside the premises to minimize fugitive emissions due to vehicular movement.
- 30 That water sprinkling and cleaning of haul roads by vacuum cleaner shall be done regularly to control the fugitive emissions generated due to vehicular movement.
- 31 That dust suppression system shall be maintained to minimize fugitive dust emission in Lead Zinc Ore handing area & at various transfer points and closed conveyor belts shall be used for the transfer of material to reduce the fugitive emissions.
- 32 That the industry shall maintain dust collection and extraction system to control fugitive dust emissions at all the transfer points & loading/unloading areas.
- 33 That regular monitoring of ground water particularly in respect to heavy metals shall be carried out by establishing adequate numbers of peizeometric well around tailing dam.
- 34 That adequate arrangements shall be made to avoid flow of pollutants along with rain water.





Rajasthan State Pollution Control Board

Institutional Area, Jhalana Doongari, Jaipur-302 004
 Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(CPM)/Bhilwara(Hurda)/2(1)/2019-2020/2498-2500

Order No: 2019-2020/CPM/5547

Unit ld : 11060

Date: 22/10/2019

- 35 That the industry shall carryout effluent sampling/stack monitoring/ambient air quality monitoring and submit quarterly analysis report from the State Board laboratory/laboratory recognized by Ministry of Environment, Forests & Climate Change (MoEF&CC), Government of India.
- 36 That industry shall comply with the provisions of Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 & Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (as notified under Environment (Protection) Act, 1986 and record of daily hazardous waste generation and its disposal shall be maintained.
- 37 That the precautions/measures shall be taken for minimization of exposure to the workers involved in handling/processing of the lead and lead bearing material.
- 38 That the unit shall periodically examine their workers at least once in year for lead level in blood as well as urine. Persons with higher lead levels (greater than 40 µg/dl) should be shifted immediately to non-lead activity areas and given special medical treatment till the lead levels come back to acceptable level.
- 39 That the industry shall install and maintain adequately designed rain water harvesting structure for recharge of ground water in and around the area.
- 40 That the plantation of local species in the 33% of total area of the project shall be carried out & maintained.
- 41 That the industry shall get policy renewed from time to time under Public Liability Insurance Act (PLIA) and submit its copy to the Board.
- 42 That the industry shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.09.2006 before establishing any such activity which attracts Environmental clearance under EIA Notification dated 14.09.2006.
- 43 That the industry shall submit the quarterly compliance report of all the above conditions to the State Board.
- 44 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained under section 27(2) of the Water Act and under section 21(6) of the Air Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of Air Act & Water Act.
- 45 That the grant of this Consent to Operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.





Rajasthan State Pollution Control Board

Institutional Area, Jhalana Doongari, Jaipur-302 004
 Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(CPM)/Bhilwara(Hurda)/2(1)/2019-2020/2498-2500

Order No: 2019-2020/CPM/5547

Boit Id : 11060

46 That the grant of this Consent to Operate shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted againt you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This Consent to Operate shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the Water Act and Air Act and to such other conditions as may, from time to time, be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of Consent to Operate and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[CPM]

(A): Copy Too-

- 1 Regional Officer, Regional Office, Rejesthan State Pollution Control Board, Britwein to inspect the unit and verify the compliance of consent conditions and submit the complete report with water analysis report of piscometic well including all paremeters and all metats within 30 days.
- Mester File.

Group Incharge[CPM]



Annexure-XXXVI



Tailing close pipe line