Brief Summary of the Expansion Project

Expansion of Sindesar Khurd Lead – Zinc underground mine from 4.5 million TPA to 6.0 million TPA Ore production and Beneficiation from 5.0 million TPA to 6.5 million TPA, located at Sindesar Khurd Village, Tehsil: Relmagra, District Rajsamand, Rajasthan (ML No.07/95, Area 199.8425 Ha.) of M/S Hindustan Zinc Limited (HZL)

HZL is the only integrated Lead & Zinc manufacturer in India and owns captive lead and zinc mines at Rampura Agucha, Rajpura Dariba, Kayad, Sindesar Khurd and Zawar Mines that cater to the requirement of lead and zinc concentrate for its smelters located at Chanderiya, Dariba & Debari. All the mining operations is within Rajasthan state. Sindesar Khurd deposit extends over a lease area of 199.8425 ha with estimated in-situ ore Reserves & Resources of 106.88 million tons with grades of 4.52% Zinc and 2.70% Lead. The proposed expansion of mine is from 4.5 to 6.0 million TPA of Lead-Zinc Ore Production & Lead-Zinc ore Beneficiation from 5.0 to 6.5 million TPA of which 6.0 million TPA ore will be beneficiated for SK Mine and 0.5 million TPA from Bamnia Kalan mine & other mines. The additional cost of this expansion project is around Rs. 1051 Crores. The Proposed expansion site falls in village Sindesar Khurd, Block & Tehsil Relmagra of district Rajsamand in Rajasthan State. The Mining Lease area falls in Survey of India Toposheet No. 45L/1 and 45K/4 and lies between Latitudes 24°59’N-25°01’N and Longitudes 74°09”E-74°10”E.

The project is a mechanised underground Lead-Zinc mine project and is classified as “Category-A” by Ministry of Environment & Forests & Climate Change, New Delhi as per EIA Notification dated on 14th September 2006.

The mining method adopted for SK Mine is blast hole stoping method. In the blast hole mining method, slot is opened at the widest portion of orebody and rings are retreated towards the end of the stope. The muck is then withdrawn at extraction level through LHDs and then directly loaded in to mine trucks for hauling through ramps from underground to surface stock yard. From stock yard, ore is fed to the primary crusher using surface dumpers through haul road after sizing with hydraulic breakers. Mining will be done using trackless operations up to -55mRL level using 2 declines for hauling. Mining below this level will be done using shaft hoisting system as the depth of hoisting will be increasing and service ramp will be available for the movement of machineries & services.

An additional 2000 m$^3$/d of water is required for proposed expansion, in addition to approved 14000 m$^3$/d water requirement for 4.5 Mtpa mining & 5.0 Mtpa Beneficiation capacity. Additional requirement will be met out from Udaipur Sewage Treatment Plant & Matrikundia dam. Zero discharge is being maintained. Mine dewatering due to intersection will also be consumed in the process. For this proposed expansion, power requirement is 6.0MW (totals 46 MW) which will be met through existing source of captive generation & AVVNL.

The tailing from existing beneficiation plants is being pumped to the existing lined tailing dam. It is proposed to continue the same and the capacity of lined tailing dam is sufficient till the mine life as the tailings generated are utilized in filling the underground mine voids.

Mine water generated in the mining activity is suitably treated and reused in wet drilling operations, dust suppression in underground operation and in sprinkling on surface roads for dust suppression. Zero discharge is being maintained from mining premises. There is no process effluent at the current beneficiation plant and no effluent is envisaged with further increased capacity. Storm water generated is allowed to flow naturally ensuring no contamination to it. In the proposed expansion of
SK Mine, no additional waste will be dumped on the surface beyond the already approved waste quantity and hence no additional waste dump is envisaged. The increased waste generated will be disposed off into the underground voids.

R&R is proposed for shifting of Sindesar Khurd Village. There is provision of Rs. 148 crore towards R&R plan. It is proposed for utilization of the land for green belt post shifting of village.

The Project site and surrounding area of 10 km radius from the mining lease boundary does not have any protected areas such as National Parks or Wildlife Sanctuaries, reserve or protected forest. Action plan has been submitted and funds earmarked for conservation of schedule 1 species in the study area. There is no court case/litigation pending against the Project.

The total Project capital Cost is INR 1051 crores. EMP implementation cost is INR 80 crores

The proposed project shall further strengthen its commitments on CSR investment for overall upliftment of socio economic index of the communities around the project site by way of financial and administrative support. The project will open up large employment opportunities, directly and also indirectly. There shall be opportunities for entrepreneurs to engage in many service sectors directly or indirectly associated with the project.

The CSR approach of the company shall be towards sustainable livelihood management of the community around. There shall be focus on education, health, sanitation, drinking water, agriculture, water shed management, culture identity preservation, welfare of socially weaker sections and marginalized people.

Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Mines Act.

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