

### NOTE REGARDING THE INTERVALS AT WHICH SERVICE ROADS ARE REQUIRED

Forest land proposed to be diverted for making the approach cum service roads is 2.408992 Hectares in 3 patches at different elevation for accessing the conveyor corridor for erection and maintainance of the Downhill Conveyor System (DCS) & is bare minimum considering steep hilly terrain. The proposed DCS from the mine starts at +865 Mean Sea Level (MSL) & ends at +650 MSL over a length of about 1200 meters with the mining lease (0.201 ha), forest land (0.8445 ha) & revenue land (0.717 ha) having an elevation difference of 215 meters. The contours exclusively in the proposed forest area are too steep having a elevation difference of 160 meters over a distance of 563 meters & having an angle of 24 to 25°.

Mobilization of heavy machineries such as Cranes, Concrete Millers and Trailers for transportation & execution of civil works, structural Tressels, conveyor gantry structures & belt laying activity will be difficult without creating safe approach cum service roads. Moreover, the main approach road form Kammathuru Cross to Ranjithpura main road is intersecting the conveyor corridor with in the mining lease area at one interval & a turning in forest land intersects at the top near the starting point of the DCS. Access cum service roads will be extended along the down slope of the hill from the existing road (Kammathuru Cross to Ranjithpura main road) at suitable gradient for conveying materials with Heavy Equipments during commissioning of DCS and these roads will be used for maintaince of DCS during operation.

Downhill Conveyor System starts in the Mining Lease No.2678 and moves towards the outer boundary between Corner Pillars No. A 191 & A 192 and enters Swamimalai forest block at an elevation of + 830 Mean sea level (MSL) and from there it steeply falls about 85 meters to + 745 MSL over a distance of 250 meters at an angle of 24 - 25°

An area of 1.927992 Ha of forest land is required in between the proposed conveyor corridor and the existing Kammathuru Cross to Ranjithpura road for making approach cum service roads (SR1) over an elevation difference of every 10 meters, for safe movement of material by Concrete Millers & Cranes and for safe erection of concrete pillars, lifting & fixing of Trestles & commissioning of about 24 meter conveyor gantry structures and maintenance of the same for smooth functioning of Downhill conveyor system. Accordingly, an area of 1.927992 ha is proposed for making approach cum service roads at an interval of every 10 meters over an elevation difference of 85 meters. The average Linear components for SR-1 is 220 meters Length & 87.636 meters width.

Road SR-2 extension of area for approach cum Service roads on Steep gradient to approach DCS corridor from the existing Kammathuru cross-Ranjitpur approach road is over an area of 0.025 Ha having an elevation + 730 MSL length of 25 meters & 10 meter width &

Road SR3 extension of area for Service roads on Steep gradient to approach DCS from the existing Kammathuru cross-Ranjitpur approach road is over an area of 0.456 Ha having a having an elevation + 705 MSL & +670 MSL, Length of 456 meters & 10 Meter width.

In flat terrain the width of 15 meters proposed for Downhill Conveyor System will be sufficient.

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