

USE OF MINERAL

Laterite will be sold to cement plants, exported to Foreign countries. Cement factories require laterite having + 30 % Fe_2O_3 and mesh size of about 10 to 40. Laterite from this area matches the above requirement.

Following are the expected consuming industries and their requirements

(a) Cement Plants in Hyderabad,

Fe_2O_3 + 46 %

Size 70AFS

(b) Exports to foreign Countries

Fe_2O_3 + 46 %

Size 70AFS

Haulage and Transport

It is a small mine, Transportation and haulage of laterite will be carried out by 3t tractor trolleys within quarry and onwards dispatches will be done by tippers.

No. of tipper required

Total tons to be hauled/day = 333 tons

Distance from pit to unloading point = 400 – 500m

No. of trips / hr = 3

Tonnage hauled / day (10t trucks) = $3 \times 3 \times 8 = 72$ TPD

No. of trucks required = $333 / 72 = \text{say } 5$

Summary of the machineries used for mining

Sr. No.	Type of machinery	Capacity	Nos.
1)	Excavator/JCB	0.90 cu.mts	2
2)	Tractor Trolleys	3 tonnes	2
3)	Trucks/ Dumpers	10 tonnes	4to5