

Transportation Plan of River Bed Material from Swarna River

Mine is well connected to NH-72 Chakkarata Road by two roads Bharwala Road and Shashpur Road. Road is wide enough to facilitate easy and smooth movement of vehicles.

Traffic analysis is carried out by understanding the existing carrying capacity of the roads near to the project site and the connecting main roads in the area. Then depending on the capacity of the mine, the number of trucks that will be added to the present scenario will be compared to the carrying capacity.

Table:- Existing Traffic Scenario & LOS

Road	V	C	Existing V/C Ratio	LOS
Bharsiwala Road	152	6,000	0.02	A
Shashpur Road	168	6,000	0.02	A
NH-72 Chakkarata Road	1973	15,000	0.13	A

Source: Capacity as per IRC: 64-1990

V= Volume of Vehicles in PCU's/day & C= Capacity of Road in PCU's/day

The existing Level of Services (LOS) is "A" i.e. excellent.

V/C	LOS	Performance
0.0-0.2	A	Excellent
0.2-0.4	B	Very Good
0.4-0.6	C	Good/Average/Fair
0.6-0.8	D	Poor
0.8-1.0	E	Very Poor

Reference: ENVIS Technical Report, IISC, Bangalore.

During Mine operation

Proposed Capacity of mine/ annum : 216000
No. of Working days : 270 days
Proposed capacity of mine/day : 800TPD
Truck Capacity : 10 tonnes
No. of trucks deployed/ day : 80
No. of trucks trips/ day : 160
Considering both loaded & empty trucks
Increase in PCU/ day will be 480 PCUs

Table:- Modified Traffic Scenario & LOS


Road	V	C	Existing V/C Ratio	LOS
Bharsiwala Road	632	6,000	0.10	A
Shashpur Road	648	6,000	0.10	A
NH-72 Chakkarata Road	2453	15,000	0.16	A

Results

From the traffic study it is observed that there is not much load on the existing roads and highways. Therefore, the additional load on the carrying capacity of the concerned roads is not likely to have any adverse affect on the LOS. However, the traffic management has been proposed as given below.

Traffic Management:

1. Roads will be repaired regularly and maintained in good conditions.
2. A supervisor will be appointed to regulate the traffic movement near the site.
3. Speed breakers will be constructed accident prone areas to calm the traffic and its speed
4. Signage will be erected at the sensitive & precarious places to caution or provide information to road user.


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