

## Transportation Plan of River Bed Material from Song I River

Mine is well connected to NH-72 & Thano 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
Thano Road	152	6,000	0.02	A
NH-72	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	: 606000
No. of Working days	: 270 days
Proposed capacity of mine/day	: 2244 TPD
Truck Capacity	: 10 tonnes
No. of trucks deployed/day	: 224
No. of trucks trips/day	: 448

Considering both loaded & empty trucks  
Increase in PCU/day will be 672 PCUs

**Table:- Modified Traffic Scenario & LOS**

Road	V	C	Existing V/C Ratio	LOS
Thano Road	600	6,000	0.10	A
NH-72	2152	15,000	0.14	A

### Results

From the traffic study it is observed that there is not much load on the existing roads and highways. Therefrom, 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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## Transportation Plan of River Bed Material from Song II River

Mine is well connected to NH-72 & Thano 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
Thano Road	152	6,000	0.02	A
NH-72	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	: 383000
No. of Working days	: 270 days
Proposed capacity of mine/day	: 1419 TPD
Truck Capacity	: 10 tonnes
No. of trucks deployed/day	: 142
No. of trucks trips/day	: 284



Considering both loaded & empty trucks  
Increase in PCU/day will be 426 PCUs

**Table:- Modified Traffic Scenario & LOS**

Road	V	C	Existing V/C Ratio	LOS
Thano Road	266	6,000	0.04	A
NH-72	2143	15,000	0.14	A

### Results

From the traffic study it is observed that there is not much load on the existing roads and highways. Therefrom, 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:

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## Transportation Plan of River Bed Material from Song III River

Mine is well connected to NH-72 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
NH-72	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	: 187000
No. of Working days	: 270 days
Proposed capacity of mine/day	: 693 TPD
Truck Capacity	: 10 tonnes
No. of trucks deployed/day	: 70
No. of trucks trips/day	: 140

Considering both loaded & empty trucks  
Increase in PCU/day will be 210 PCUs

**Table:- Modified Traffic Scenario & LOS**

Road	V	C	Existing V/C Ratio	LOS
NH-72	2253	15,000	0.15	A

### Results

From the traffic study it is observed that there is not much load on the existing roads and highways. There from, 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.
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## Transportation Plan of River Bed Material from Jakhan I River

Mine is well connected to NH-72 & Thano 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
Thano Road	152	6,000	0.02	A
NH-72	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	: 300000
No. of Working days	: 270 days
Proposed capacity of mine/day	: 1111 TPD
Truck Capacity	: 10 tonnes
No. of trucks deployed/day	: 112
No. of trucks trips/day	: 224

Considering both loaded & empty trucks  
Increase in PCU/day will be 336 PCUs

**Table:- Modified Traffic Scenario & LOS**

Road	V	C	Existing V/C Ratio	LOS
Thano Road	272	6,000	0.05	A
NH-72	2153	15,000	0.14	A

### Results

From the traffic study it is observed that there is not much load on the existing roads and highways. There from, 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:

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## Transportation Plan of River Bed Material from Jakhan II River

Mine is well connected to NH-72 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
NH-72	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	: 220000
No. of Working days	: 270 days
Proposed capacity of mine/day	: 819 TPD
Truck Capacity	: 10 tonnes
No. of trucks deployed/day	: 82
No. of trucks trips/day	: 164

Considering both loaded & empty trucks  
Increase in PCU/day will be 246 PCUs

**Table:- Modified Traffic Scenario & LOS**

Road	V	C	Existing V/C Ratio	LOS
NH-72	2219	15,000	0.15	A

### Results

From the traffic study it is observed that there is not much load on the existing roads and highways. There from, 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:

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