

Environment management Plan of sand quarry
Area 3.1 ha.village singarpur
Tehsil- gorihar district- chhatarpue (m.p.)

Environment Management Plan

Mining Plan of sand quarry

Area- 3.10 Hectare

Proposed Capacity –83571M³ Per Year

**Village-singarpur , Tehsil gorihar District-
chhatarpur , (M.P.)**

Project Proponent

M/S H.P.corporation

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PREPARED BY

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ENVIRONMENTAL MANAGEMENT PLAN

A) BASE LINE INFORMATION

Exiting Land use pattern:

The environment management plan is a complete package of impact mitigation waste minimization , management and institutional measures to be taken during implementation and operation of mining to eliminate the adverse environmental impacts or to reduce them to the acceptable level.

Then environmental features which are likely to be affected by mining activities are land , topography ,drainage p[attern,soil, air quality,water resources and water quality , ecology and human health .

All the above mentioned features are addresses in this plan to ensure the sustainable development and judicious utilization of nin-renewable resources with keeping the pollution level within permissible assimilative limit.the details are summarizing below :

1,quarrying area :

The lease area is 3.100 ha.it is a non forest ,private land.the area is a undulated land having gentle slope.

No any area of archaeological important structure is lying within 10 km radius .

Cumulative land degradation

| S.No. | articles | Land use at the end of 2years in ha. | Forest land | Land use at the end of 2 years in ha. |
|-------|--------------------|--------------------------------------|-------------|---------------------------------------|
| a. | Lease area | 3.100 | - | 3.100 |
| b. | Quarrying & allied | 2.7957 | - | 2.7957 |

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| | | | | |
|----|--------------------|---|------------------------------|------------------------------|
| 1. | Area under pit | - | - | - |
| 2. | Area for dumping | - | - | - |
| 3. | Area for road | - | - | - |
| 4. | Infrastructure | - | - | - |
| 5. | Plantaion | - | 0.1020(along lease boundary) | 0.1020(along lease boundary) |
| 6. | Storage of mineral | - | - | - |
| 7. | Storage of fines | - | - | - |
| 8. | Crushing unit | - | - | - |
| 9. | Untouched area | - | - | - |

3. Human Settlement:

Nearest village Singar Pur is present about 1.7 km west of the lease area. No villages or human dwelling are within the quarrying area.

4. Land environment:

The proposed quarrying operations will only be confined to the quarry area of 3.100ha and it is not going to affect the surrounding area. However, as a result of quany operation the original profile of land will be altered. Inside the area, the proposed production will be carried out by excavation of sand.

5. Air Environment:

Quarrying of Sand does not have any activity which becomes the source of air pollution. Only Vehicles used for transportation purpose may cause moderate emissions, within the permissible norm of limit. Haulage road also generate dust due to movement of transport vehicles.

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- (1) Regular water sprinkling to suppress the dust on haul roads, service roads and mining face by sprinklers and truck mounted water tankers.
- (2) Grading of haul roads, service roads time to time, to remove the accumulated dusty materials.
- (3) Proper maintenance of the earth moving equipments and vehicles, checking of exhaust emission and imposing of speed restrictions on them.
- (4) Avoiding of overloading of dumpers during the transportation.
- (5) Development of green belt along quarrying area boundary.
- (6) Periodical monitoring of air quality to take steps to control the pollutants.

6. Water Environment:

Likely impact of quarry on water table

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The area does not falls in notified area under Water Act 1974. The quarrying activity will be confined to the lease area and there are no perennial streams or nalas present over there. Even than strict care will be taken to avoid contamination of any foreign material with the ground water if at all the ground water intersect during the mining.

Details of modification / diversion of natural drainage system / Obstruction of water channels and measures taken.

No modification / diversion are required.

Measures taken for minimizing silting and contamination of water

Not required.

Top Soil Management

Not required.

Tailing Dam Management:

No tailing dam is proposed

Requirement of water for quarrying operations

Water is not required for quarrying operation. Although small quantity of water is required for drinking and dust suppression purpose which will be meet out from the bore well / river nearby.

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Source of water

Water may be used for dust suppression and afforestation, purposes, whereas, water for drinking purpose may be taken up from dug well of bore hole from the nearby village. Statutory permissions will be taken up for use of water according to the act and rules applicable.

7. Noise & Vibration:

No generation of noise and vibration as the quarrying activity and loading of sand will be done without blasting. Transport vehicles may generate noise which will be maintained within the permissible norm of limit.

Storage of explosive (like capacity and type of explosive magazine)

Not applicable,

8. Human Environment:

The contributing factors that affect the health of people are dust, gaseous pollutants, noise in the quarry. These are categorized as occupational hazards. The various quarrying operations like loading / unloading and vehicle movement involve risks and will have to be performed with safety norms. First - Aid kit and emergency

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medicines will be kept at quarry site along with a display board showing the contact no of nearby Medical Doctor / Hospital.

Social infrastructure

It is expected that the project will lead to much needed employment opportunities in the villages which will contribute to the socio-economic development of this area.

Rehabilitation and Resettlement (R & R) Plant

Not required as the area is away from village and free from rehabilitation.

Stabilization and Vegetation of dumps:

Not applicable.

Development of green belt along lease boundary will be completed by planting about 209 trees in during this plan period.

Swewerage system

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In view of the personals engaged in the project the movable type of sewerage system may be installed / deployed nearby the quarry area. This may avoid polluting the land / water / air of the area.

Environmental monitoring:

To assess the prevailing quality of the air, water, noise etc. a regular monitoring of these parameters will be made to arrive at improvement / protection measures.

The environment management along with safety related issues is shown in plate no.7.