

FIELD SURVEY REPORT OF THE PROJECT AREA

Resource Assessment

During the preparation of the mining plan of the area all the geological data collected during field visit is considered.

The proposed area is for fresh applied area, falling on the hill slope. In the top most part of the hill stone (Basalt) is exposed. Scattered rolled boulders mounted in soil also found within the applied area. It is also evident from the nala cutting section surrounding area that stone is continue within the applied lease area. During the site inspection all these evident are studied properly by the geologist and surveyor. This field study helped to collect and assess the physical nature, depth extent and spread of the stone deposit in this area also. These data formed the basis of reserve estimation in the mining plan and the development of the deposit. The data collected from the evident meets the requirement for geological exploration to some extent.

The general regional geology of the area has been described in the mining plan which is based on the exploration work carried out by the Geological Survey of India (GSI) involving the region. This Memoir of GSI relates to Sahibganj district in Jharkhand State. Since, the **District Survey Report of the Sahibganj District is not prepared so far**, so, the resource and reserves are estimated in the mining plan is based on the above mentioned factors.-

1. For the regional geology of the area information are gathered from the publications of Geological Survey of India and also from the book published by Geological Society of India, authored by T.M.Mahadevan.
2. Nature of the deposit as well as depth continuity observed in the existing quarries in the surrounding area.
3. Correlating the outcrops in the proposed area.
4. Proper survey of the area with the competent surveyor.
5. Proper field study by the qualified Geologist.

The local geology of the area is considered on the basis of field study and topography of the area is based on the field survey. The details of local geology of the area are described in Chapter 3, page no. 5 of the mining plan.

The resource and reserves are estimated in the mining plan is based on the above mentioned factors.

CHUWA STONE DEPOSIT
(AREA: 11.00 ACRES / 4.45 Ha)
APPLICANT: M/s JAI BABA PASUPATINATH STONE WORKS

Standard Cross Sectional Area method is adopted for the resource and reserve estimation and described in the following way.

- a) Sections have been drawn from boundary to boundary across the lease area considering the litho units in the area. The sectional area has been estimated on the basis of the cross sections at a regular interval.
- b) Length of influence have been measured the by taking half of the sectional interval on both sides of each section.
- c) Bulk density has been taken & multiplied with the achieved volume (Cross sectional area X length of influence) of the stone deposit of each section.

The details of resource and reserve estimation of the deposit is briefly described under the Para 3.5 & 3.6 of the mining plan in Chapter 3, page no. 7 (Ref, Plate Nos 4 &4A).

The above descriptions satisfy the basic exploratory requirement for the estimation of the resource and reserve of the proposed area.

In absence of District Survey Report of the concerned district the above factors are thought to be sufficient for the estimation of resources and reserves of the area.

Thus, the mining plan is prepared by RQP and is submitted for approval.