

PROCEEDINGS OF PUBLIC HEARING FOR MINING OF M/S JHARABAHAL STONE QUARRY- I & II (UNDER CLUSTER AREA OF 7.0 Ha.) OF M/S B.P. CONSTRUCTION WITH TOTAL EXCAVATION OF 26,000 CUM/YEAR OVER MINING LEASE AREA OF 7.0 Ha. IN JHARABAHAL VILLAGE UNDER ROURKELA TAHASIL OF SUNDARGARH DISTRICT. (ODISHA)

The public hearing meeting for M/s Jharabahal Stone Quarry – I & II (Under Cluster area 7.0 Ha.) of M/s B.P. Construction with total excavation of 26,000 Cubic meter per year was conducted on dtd.30.11.2023 at 11:00 A.M. at Fetcol Petrol Pump (Near Jharabahal Stone Quarry-I & II), Village- RTU-47, P.S - Tangarpali under Rourkela Tahasil in the District of Sundargarh. Sri Bijaya Kumar Nayak, Sub-Collector & Sub-Divisional Magistrate, Panposh of Sundargarh district presided over the meeting. At the outset, Dr. Anup Kumar Mallick, Addl. Chief Environmental Scientist and Regional Officer, State Pollution Control Board, Odisha, Rourkela delivered welcome address, organised and conducted the public hearing meeting in association with the District Administration.

The Public hearing in respect of the above mining was conducted as per the schedule and at the venue in accordance with EIA Notification S.O.1533(E) dtd.14.09.2006 and subsequent amendment therein. The Public Hearing meeting with regards to date, place and time was announced in public address system apart from its publication in local dailies. The process followed for the public hearing was adequate. The attendance sheet of the public present in the meeting is annexed herewith in **ANNEXURE-I**. Around 150 nos. of persons attended the public hearing meeting and Sixty two (62) Nos. of persons have signed in attendance sheet. **Fifteen (15) nos. of persons** had delivered their views, the list and signatures is given in **ANNEXURE-II**.

Dr. Anup Kumar Mallick, Addl. Chief Environmental Scientist and Regional Officer welcomed the Public & explained about the importance of such hearing and also invited views, comments, objections & opinions of the public which are necessary while considering the environmental clearance of the project and he also told that those who want to give their written statement about the proposed project, they can do so. He briefly mentioned about the mining project of Jharabahal Stone Quarry-I & II(Under Cluster area 7.0Ha) of M/s B.P Construction with total

excavation of 26,000 Cubic meter per year. He requested the Sub-collector, Panposh to preside over the public hearing.

After that the Sub-Collector, Panposh briefly described about the project and invited the project proponent of Jharabahal Stone Quarry-I & II (Under Cluster area 7.0Ha.) of M/s B.P Construction. Sri Ranjit Kumar Patra, Power of Attorney Holder described about the proposed mining activities for production of stone mines, salient features of the proposed project and Environmental Management Plan, Pollution Control Measures to be adopted during mining operation, Blasting procedure, Plantation Programme and various other peripheral development activities and contribution towards increase of State revenue etc. to be carried out during the course of mining.

## INTRODUCTION

Jharabahal Stone Quarry- I & II (under total cluster area 7.0 Ha. of 2 stone quarries) is located in village Jharabahal, Tehsil Rourkela, District Sundargarh in Odisha. The mining lease is granted by Tahasildar Rourkela and leased out to the successful bidder. The mining lease has been granted on long term basis for 5 years and the lease period will start from the date of registration of executed lease deed. The lessee has applied for Environment clearance of Jharabahal Stone Quarry- I & II (under total cluster area 7.0 Ha.). The project is categorized in Category-B1 (Lease area>5Ha.) of Schedule under item 1(a) in the EIA notification, 2006 and its subsequent amendments (as the total lease area of 2 stone quarries under cluster is more than 5.0 Ha.). The Environmental Impact Assessment (EIA) study report is prepared for obtaining Environmental Clearance (EC) from SEIAA for the proposed project.

**Table 1, Detail of the lease area**

S. No.	Name of Quarry	Lease Area	Land Schedule	Kissam
1.	Jharabahal Stone Quarry -I	4.856 Ha.	Khata No- 25 Plot No - 280 (P)& 281(P)	Parbat
2.	Jharabahal Stone Quarry -II	2.144 Ha.	Khata No- 25 Plot No - 281(P)	Parbat

## **IDENTIFICATION OF PROJECT AND PROJECT PROPONENT**

### **Identification of Project Name of the Project-**

Jharabahal Stone Quarry- I & II over an cluster area of 7.0 Ha. Total Cluster Production is 26000 cum/year of Stone.

Location of the Project- Jharabahal Stone Quarry- I & II is located at village Jharabahal, Tehsil Rourkela, District Sundargarh in Odisha. The area falls in Survey of India Topo sheet No. F45G16.

### **BRIEF DESCRIPTION OF PROJECT**

#### **Need of the project**

The stone quarried will be used as construction material. The production of mineral will benefit to the State in the form of Royalty. Apart from this, the project will generate direct and indirect employment opportunities to the tune of about 52 persons from the nearby villages. Also, the mine management will conduct medical camps at regular interval in the nearby villages and will help the nearby villages in providing infrastructure like school furniture, water tankers, etc.

#### **Size of the project**

Jharabahal Stone Quarry- I & II is presently spanning over an area of 7.0 ha (cluster). Proposed rate of production is 26000 cu.m/year of Stone.

### **PROJECT DESCRIPTION**

#### **Brief description of the project**

Jharabahal Stone Quarry- I & II is located at village Jharabahal, Tehsil Rourkela, District Sundargarh in Odisha.

A total of 02 projects are coming within 500 Meters and both are Proposed Projects at village Jharabahal, Tehsil Rourkela, District Sundargarh of Odisha over an applied cluster area of 7.0 Ha

As per EIA notification 2006 and subsequent amendments, the project is coming under B1 Category as the lease area is more than 5.0 Ha.

The estimated project cost cluster project is Rs 11.211 Crore (Jharabahal Stone Quarry- I = 909 lakhs + Jharabahal Stone Quarry- II = 212.1 lakhs). The average production is proposed to be 26000 cum/year (Jharabahal Stone

Quarry- I = 20,000 cum/year and 1,00,000 cum is the total production + Jharabahal Stone Quarry- II = 6,000 cum/year and 30,000 cum) is the total production during the 5 years plan period. This stone would be mainly used for civil works in major projects and infrastructures development so as to meet the market potential.

### Salient features of mine lease

The salient features of mine lease are given below:

**Table 2: Salient features of mine lease**

S. No.	Particulars	Details				
A.	Nature & Size of the Project	Jharabahal Stone Quarry- I & II (Under Cluster) for Proposed Production of 26000 cum/year in village- Jharabahal, Tehsil – Rourkela, District Sundargarh in Odisha , Cluster Area- 7.0 Ha				
B.	Location					
	Name of Village	Jharabahal				
	Tehsil	Rourkela				
	District	Sundargarh				
	State	Odisha				
	Toposheet No.	F45G16				
C.	<b>Mine lease area details</b>					
	Lease Area	Area: 7.0 Hectare (Cluster Area) (4.856 ha. of Jharabahal Stone Quarry - I 2.144 ha. of Jharabahal Stone Quarry - II)				
	Topography	The lease area represents a partially rugged terrain.				
	Site Elevation Range	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Max (m RL)</th> <th>Min (m RL)</th> </tr> </thead> <tbody> <tr> <td>230</td> <td>184</td> </tr> </tbody> </table>	Max (m RL)	Min (m RL)	230	184
Max (m RL)	Min (m RL)					
230	184					
D.	<b>Cost Details</b>					
	Cost of the project	1121.1 lakh (11.211 Crores)				
	Cost for EMP	Capital cost – 3.65 Lakhs Recurring cost – 6.69 Lakhs/annum,				
	Cost of CER	2 % of proposed project cost				
E.	<b>Details of Environmental Setting</b>					

Ecological Sensitive Areas (National Park, Wild Life Sanctuary, Biosphere Reserve, Protected Forest etc.) within 10 km distance	There is no National Park or Biosphere Reserve within km distance from the lease area. Hatibandha Reserve Forest, approx. 1.30 km in SE direction
Water Bodies,	Brahmani River, approx. 2.0 km in West direction from t mining lease.
Nearest Town	Rourkela, Approx. 3.30 km in North direction.
Nearest Railway Station	Rourkela Junction at a distance of 3.75 Km NNE direction.
Nearest National Highway	NH-143, approx. 0.42 km West direction.
Nearest state boundary	No interstate boundary within study area.
Nearest Airport	Biju Patnaik International Airport, Bhubaneswar is appro 240.0 km towards SE direction.
Seismic Zone	As per the 2002 Bureau of Indian Standards (BIS) map, Odisha also falls in Zones I & II.

### Method of mining

#### Jharabahal Stone Quarry – I

Mining will be done by Opencast semi-mechanized mining method with adoption of drilling & blasting. Mining will be done by deploying machines like jackhammer, drill compressor, rock breaker, excavator and tractors/trucks. Tipper trucks will be used for transporting stone and waste.

#### Jharabahal Stone Quarry – II

In the applied lease area mining of rock mass will be worked out by opencast method of mining. Handling of rock mass will be done only manually and. Handpicks, spade, chisel, hammer will be used by manual labors for sorting and sizing. Loosening of rock mass will be done manually.

## RECLAMATION AND AFFORESTATION PROGRAMME

Present reclamation and rehabilitation is not required.

The details of plantation and number of saplings to be planted are given below in Table: 3

**Table 3, Details of greenbelt scheme**

### Greenbelt Details for Jharabahal Stone Quarry - I

Year	Greenbelt development	Plantation along both sides of approach road	No. of plants distributed in places like Anganwadi, Panchayat Bhawan & Schools	Species of Plant
1 <sup>st</sup> Year	--	--	--	Plants suggested by villagers
2 <sup>nd</sup> year	0.647 ha/60 plants	225	75	
3 <sup>rd</sup> year	Care / protection of plants			
4 <sup>th</sup> year				
5 <sup>th</sup> Year				
<b>Total</b>	<b>60</b>	<b>225</b>	<b>75</b>	
<b>Total</b>	<b>360</b>			

### Greenbelt Details for Jharabahal Stone Quarry - II

Year	Greenbelt development	Plantation along both sides of approach road	No. of plants distributed in places like Anganwadi, Panchayat Bhawan & Schools	Species of Plant
1 <sup>st</sup> Year	--	--	--	

2 <sup>nd</sup> year	0.440 ha/40 plants	225	75	Plants suggested by villagers
3 <sup>rd</sup> year	Care / protection of plants			
4 <sup>th</sup> year				
5 <sup>th</sup> Year				
Total	40	225	75	
Total	340			

### Greenbelt Details for Cluster

Year	Greenbelt development	Plantation along bothsides of approach road	No. of plants distributed in places like Anganwadi, Panchayat Bhawan & Schools	Species of Plant
1 <sup>st</sup> Year	--	--	--	Plants sugges ted by villagers
2 <sup>nd</sup> year	1.087 ha/100 plants	450	150	
3 <sup>rd</sup> year	Care / protection of plants			
4 <sup>th</sup> year				
5 <sup>th</sup> Year				
Total	100	450	150	
Total	700			

### BASELINE ENVIRONMENTAL STATUS

#### Soil quality

05 soil samples were collected in and around the mine lease area to assess the present soil quality of the region. The pH of the soil indicates that the soil is slightly alkaline in nature. Based on the results, it is evident that the soils are not contaminated by any polluting sources.

#### Meteorology

Meteorological data at the site was monitored during March, 2023 to May 2023 representing pre monsoon season.

## **Ambient air quality**

Ambient Air Quality Monitoring (AAQM) has been carried out at eight locations.

The minimum and maximum level of PM<sub>2.5</sub> recorded within the study area was in the range of 24.78 µg/m<sup>3</sup> to 51.46 µg/m<sup>3</sup> with the 98th percentile ranging between 36.77 µg/m<sup>3</sup> to 49.22 µg/m<sup>3</sup>. The minimum and maximum level of PM<sub>10</sub> recorded within the study area was in the range of 53.78 to 88.38 µg/m<sup>3</sup> with the 98<sup>th</sup> percentile ranging between 75.66 µg/m<sup>3</sup> to 87.76 µg/m<sup>3</sup>. The minimum and maximum concentration of SO<sub>2</sub> recorded within the study area was 6.54 to 17.96 µg/m<sup>3</sup> with the 98<sup>th</sup> percentile ranging between 10.51 µg/m<sup>3</sup> to 17.24 µg/m<sup>3</sup>. The minimum and maximum level of NO<sub>2</sub> recorded within the study area was in the range of 10.71 µg/m<sup>3</sup> to 26.86 µg/m<sup>3</sup> with the 98th percentile ranging between 16.21 µg/m<sup>3</sup> to 20.61 µg/m<sup>3</sup>.

## **Water quality**

To assess the physical and chemical properties of water in the region, ground water samples from six locations & surface water from four locations were collected from various water sources around the mine lease area. The pH of the ground water samples in the region varied from 7.18 to 7.45. The results indicate groundwater is generally in conformity with the drinking water standards (IS: 10500) and surface water is in conformity with IS-2296 standards.

## **Noise Levels**

The values of noise observed in some of the areas are primarily owing to vehicular traffic. Assessment of hourly night time Leq (Ln) varies from 44.5 to 36.9 dB (A) and the hourly daytime Leq (Ld) varies from 58.0 to 42.4 dB (A) within the study area. The status of noise quality within the 10 km zone of the study area is, therefore, within the MoEF & CC standards.

## **Ecological Environment**

Based on the field studies and review of published literature, it is observed that there are no schedule-I species in the buffer zone. There are no National Parks within the study area of 10-km radius. However, some PF & RF are present within 10 km radius from the mine site.



## **Social Environment**

The implementation of the Jharabahal Stone Quarry- I & II (Under Cluster) will generate both direct and indirect employment. At present agriculture is the main occupation of the people as more than half of the population depends on it. With the implementation of the proposed mining project the occupational pattern of the people in the area will change making more people engaged in industrial and business activities rather in agriculture. Thus there will be a gradual shifting of population from agriculture to mining and industry. The study area is still lacking in education, health, housing, water, electricity etc. It is expected that same will improve to a great extent due to proposed mining project and associated industrial and business activities. All persons aged seven years and above, who can both read and write with understanding in any language have been considered as literate in this study.

## **ANTICIPATED ENVIRONMENTAL IMPACTS**

### **Impact on air quality**

The mining is carried out by opencast semi mechanized method. The air borne particulate matter generated by ore and handling operations, and transportation of ore is the main air pollutant. The emissions of Sulphur dioxide ( $\text{SO}_2$ ), Oxides of Nitrogen ( $\text{NO}_2$ ) contributed by diesel operated excavation/loading equipment and vehicles plying on haul roads are marginal. Prediction of impacts on air environment has been carried out taking into consideration proposed production and net increase in emissions Air pollution sources in the operating mine have been classified into:

Line sources Transportation of ore from mining benches to tipper platform of plant, movement of tippers on the haul road is considered as line sources.

Water tankers with spraying arrangement will be used for regular water sprinkling on the haul roads to ensure effective dust suppression. The tippers are well maintained so that exhaust smoke does not contribute abnormal values of noxious gases and un-burnt hydrocarbons.

## **Impact on Water Resources**

As there is no seasonal *nalla* or water body within the leasehold area, therefore no change will be observed due to mining operation.

### **Groundwater Resources**

The ground water table in the lease area varies from 20m to 30mbgl for Jharabahal stone quarry-I and from 15m to 20mbgl for Jharabahal Stone quarry-II. The mining will be done much above ground water table. Ground water table will not be intercepted.

### **Impact on water quality**

Analysis results of surface water samples collected from rivers in the buffer zone indicate that the pH, total dissolved solids (TDS) are well below the prescribed limits.

No wastewater generation is envisaged due to the mining operations. The sanitary wastewater will be sent to septic tanks. No impact of wastewater generation on the surface water is envisaged, as there is no discharge into surface water resources.

### **Impact on noise levels and ground vibrations**

With the mining operations, involving deployment of machinery for mine development, excavation and transportation of mineral, it is imperative that noise levels would increase. It is also observed that these incremental noise levels will not significantly affect the existing ambient noise levels.

### **Impact on Soil**

The environmental impacts of the mining activities on topsoil are based on the quantity of removal of topsoil and its dumping. In the present project as it is proposed to temporarily store the topsoil and use it for plantation schemes, no adverse impact of excavation of topsoil is envisaged. The soil erosion from overburden dumps is not envisaged in the present project, as sufficient measures as detailed in the EMP would be undertaken.

## **Impact on flora and Fauna**

As the mining activity is restricted to core zone, no significant impact on the flora of the buffer zone due to the proposed mining of mineral is anticipated. It is proposed to include *Azadirachta indica* and *Ficus religiosa* in the plantation program as they serve as sinks for gaseous emissions. Extensive plantation comprising of pollutant resistant trees will be undertaken, which will serve not only as pollution sink but also as a noise barrier.

The incremental dust generations due to the mining operations, at the boundary of the mine lease are insignificant and it is also expected that with the adoption of mitigation measures as suggested in EMP, the impact due to operation of the mine will be minimal on the terrestrial ecosystem and also on the adjacent forest area.

The impact on the fauna of the buffer zone due to the mining activity will be insignificant. The proposed progressive plantation over a period of time will reduce the impact, if any, on the fauna.

## **Impact on land use pattern**

The proposed opencast mine will result in change the land use pattern of the QL area. The land degradation is expected during mining activities like excavation, overburden dumping, soil extraction etc. Land requirement for the project has been assessed considering functional needs.

## **Impact on Socio-economic aspects**

The mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement. No public buildings, places, monuments etc exist within the lease area or in the vicinity. The mining operation will not disturb/ relocate any village or need resettlement. Thus no adverse impact is anticipated.

The impact of mining activity in the area is positive on the socio-economic environment of the region. Jharabahal Stone Quarry- I & II (Under Cluster) lease will be providing employment to local population and it will give preference to the local people whenever there is requirement of man power.

## **ENVIRONMENTAL MANAGEMENT PLAN**

The summary of suggestive mitigation measures are given in Table-5.  
Table 5, Key suggestive measures under EMP

Impact Predicted	Suggestive measure
Disturbance of free movement/living of	<ul style="list-style-type: none"> <li>• No labour camp will be allowed in reserve forest</li> </ul>
wild fauna	<ul style="list-style-type: none"> <li>• Awareness camps will be conducted for labours to make them aware about sensitivity/importance of forest life</li> <li>• No tract or new road for movement of labours or vehicles be laid in reserve forest area, this will prevent forest fragmentation, encroachment and human – animal encounter</li> <li>• Care will be taken that noise produced due to vehicles movement for carrying ore materials are within the permissible noise level. Higher noise level in the forest area will lead to restless and failure in detection of calls of mates and young ones</li> <li>• Care will be taken that no hunting of animals will be carried out by labours</li> <li>• If wild animals are noticed crossing the core zone, they will not be disturbed at all</li> <li>• Labours will not be allowed to discard food, plastic etc., which can attract animals near the core site</li> <li>• No honk will be allowed in the forest area, noise level will be within permissible limit (silent zone-50dB during day time) as per noise pollution (regulation and control), rules, 2000, CPCB norms</li> </ul>
Harvesting of forest flora	<ul style="list-style-type: none"> <li>• No tree cutting, chopping, lumbering, uprooting of shrubs and herbs should be allowed</li> <li>• No pilling of ore material should be done in the reserve forest area</li> <li>• Collections of economically important plants will be fully restricted</li> </ul>

### ANALYSIS OF ALTERNATIVES

The mineral has been identified based on the result of geological investigations and exploration carried out by the lessee. The mining projects are site specific as such alternate sites were not considered. The mine will be operated by opencast semi mechanized method using minimum drilling and blasting. No other alternative technologies can be used because of the hard nature of the

ore. Proposed mine is using eco-friendly measures to minimize the impact of mining on the surrounding environment.

**Table 6: Environmental monitoring programme**

Attributes	Sampling		Measurement Method	Test Procedure
	Network	Frequency		
<b>A. Air Environment</b>				
<b>Meteorological</b> · Wind direction · Relative humidity · Rainfall	Minimum 1 site in the project impact area	Regularly in one season by Weather Monitoring Station	Mechanical/automatic weather station	-
Pollutants PM10	4 locations in the project impact area (Minimum 1 locations in upwind side, 1 sites in downwind side / impact zone and 1 in core zone)	Once in a season.	Gravimetric method	-
			Gravimetric method	-
SO2			EPA Modified West & Geake method	Absorption in Potassium Tetra Chloromercurate followed by Colorimetric estimation using P-Rosaniline hydrochloride and Formaldehyde (IS: 5182 Part - II).

NO <sub>2</sub>			Arsenite modified Jacob & Hochheiser	Absorption in dil. NaOH and then estimated colorimetrically with sulphanilamide and N (l- Nephthyle) Ethylene diamine Dihydrochloride and Hydrogen Peroxide (CPCB Method).
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**B. Water Environment**

pH, Turbidity, Colour, Odour, Taste, TDS, Total Hardness, Calcium hardness, Magnesium hardness, Chloride, Fluoride, Sulphate, Nitrates, Alkalinity, Iron, Copper, Manganese, Mercury, Cadmium, Selenium, Arsenic, Cyanide, Lead, Zinc, Chromium, Aluminum,	Set of grab samples during pre and post- monsoon for ground and surface Water in the Vicinity.	Diurnal and Season wise	As per IS 10500	Samples for water quality should be collected and analyzed as per :IS:2488 (Part 1- 5)methods for sampling and testing of Industrial effluents Standard methods for examination of water and waste water analysis published by American Public Health Association.
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Boron, Phenolic Compounds				
<b>C. Noise</b>				
Noise levels at Day & night time -Leq dB (A)	Mine Boundary , High noise generatin g areas within the lease	Quarterl y /Half yearly	As per CPCB norms	As per CPCB norms
<b>D. Soil</b>				
pH, Bulk Density, Soil texture, Nitrogen, Available Phosphorus, Potassium, Calcium, Magnesium, Sodium, Electrical Conductivity, Organic Matter, Chloride	4 locations in the project impact area	Yearly/ha lfyearly	As per USDA Method	As per USDA Method
<b>E. Socioeconomic</b>				
· Demograp hicstructure · Infrastructu reresource base · Economic resource base · Health status: Morbidity pattern · Cultural and Aesthetic	Socioecono micsurvey is basedon proportionat e, stratified and random sampling method	Minimum for two phases of the project	Primary data collection through Questionnaire	Secondary data from census records, statisticalhard books, topo sheets, health records and relevant official records available with Govt. agencies

## Cost Estimates

The details of the cost to be incurred for successful monitoring of environment parameters and implementation of control measures are given in Table-7.

**Table 7: Cost of environmental protection measures**

### Budget allotted for the EMP for Jharabahal Stone Quarry - I

Sl. No	Description	Capital Cost (Rs.)	Recurring Cost (Rs.)
1	Pollution Control & Dust Suppression	--	2,00,000
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	14,000 (4 samples) 8,000 (2 GW & 2 SW) 8,000 (2 samples) 7,000 (2 samples)
3	Plantation	72,000	50,000
4	Construction and maintenance of haul road	1,12,500	66,000
<b>TOTAL</b>		<b>1,84,500</b>	<b>3,53,000</b>

**Note: \*360 plants \* 200 Rs (for each plant including hedges) = 72,000/-**

**Salary of Labor for haul road maintenance 1 labor\*220 =300 per day**

**300\* 220= 66,000/-**

**\* 2.5 lakh per kilometer (250000 \* 0.450 km haul road = 1,12,500/-)**

### Budget allotted for the EMP for Jharabahal Stone Quarry - II

Sl. No	Description	Capital Cost (Rs.)	Recurring Cost (Rs.)
1	Pollution Control & Dust Suppression	--	2,00,000



2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	14,000 (4 samples) 8,000 (2 GW & 2 SW) 8,000 (2 samples) 7,000 (2 samples)
3	Plantation	68,000	50,000
4	Construction and maintenance of haul road	1,12,500	66,000
<b>TOTAL</b>		<b>1,80,500</b>	<b>3,53,000</b>

**Note: \*340 plants \* 200 Rs (for each plant including hedges) = 68,000/- Salary of Labor for haul road maintenance -1 labor\*220 =300 per day 300\* 220= 66,000/-**

**\* 2.5 lakh per kilometer (250000 \* 0.450 km haul road = 1,12,500/-)**

**Budget allotted for the EMP for Jharabahal Stone Quarry I & II (for Cluster)**

Sl. No	Description	Capital Cost (Rs.)	Recurring Cost (Rs.)
1	Pollution Control & Dust Suppression	--	4,00,000
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	14,000 (4 samples) 8,000 (2 GW & 2 SW) 8,000 (2 samples) 7,000 (2 samples)
3	Plantation	1,40,000	1,00,000
4	Construction and maintenance of haul road	2,25,000	1,32,000
<b>TOTAL</b>		<b>3,65,000</b>	<b>6,69,000</b>

**Note: \*700 plants \* 200 Rs (for each plant including hedges) = 1.40 lakhs**

**Salary of Labor for haul road maintenance 2 labor\*300 = 600 per day 600\* 220= 1,32,000/-**

**\* 2.5 lakh per kilometer (250000 \* 0.900 km haul road = 2,25,000)**

## Conclusion:-

- The mining operations will meet the compliance requirements of MoEF;
- Community impacts will be beneficial, as the project will generate significant economic benefits for the region;
- Adoption of best available technology and best management practices with more environmental friendly process; and
- With the effective implementation of the Environment Management Plan (EMP) during the mining activities, the proposed project can proceed without any significant negative impact on environment.

Sub Collector, Panposh then invited the public to address their views on the environmental aspects of the proposed project. Fifteen (15) nos. of villagers opined their views as mentioned below.

### 1) Sri Rajesh Lakra, Jalda 'A' block :-

Sri Lakra asked the project proponent whether they can really provide the facilities that they are promising. It should be clearly discussed. He demanded for a clear discussion between the local people and the project proponent.

### 2) Sri Jogendra Luhar (Ex-Zilla Parishad), Jalda 'A' block:-

Sri Lakra welcomed all and expressed that mining activity was in operation since last five years and steps have been taken for spraying of water on road. He requested the Project Proponent to provide some development work for their village. He stated that steps shall be taken for mitigation of dust pollution during mining activity. Due to mining local people will get benefitted and employed.

### 3) Sri Gobbin Toppo, Jalda :-

Sri Toppo told that people got benefitted and got employment due to the mining operation. He also expressed that they are benefitted due to operation of the stone quarry. Local villagers and poor people were employed in the mine. He stated that due to non operation of the mine local villagers are facing difficulties to get their livelihood. He supported the project as the project will generate employment opportunities.

### 4) Sri Loknath Mallick, Sector-22, Utkal Nagar:-

Sri Mallick stated that due to blasting activities of the quarry, several cracks have arisen in their houses. He also expressed that the project proponent did not fulfill their commitment. The project proponent has not carried out any developmental work for local villagers. He requested local District Administration for local development instead of approving the stone quarry project. They have also not

conducted any avenue plantation on the village road. He also stated that dust pollution which will be generated during mining will have adverse impact on health of local people.

**5) Sri Bhima Indwar, Jalda:-**

Sri Indwar Stated that all the people gather here shall decide the impact of proposed stone quarry.

**6) Sri Chita Ranjan Bhumij, Jalda 'A' Block:-**

He stated that due to blasting activities of the quarry, several cracks has arises in their houses. He also expressed that the project proponent did not full fill their commitment. The project proponent has not carried out any developmental work for local villagers. They have also not conducted any avenue plantation on the village road. He also stated that dust pollution which will be generated during mining will have adverse impact on health of local people.

**7) Sri Shree Charan Samal, Sector-22, Utkal Nagar:-**

Sri Samal expressed that due to blasting activities the local people are facing various problems such as cracks in the house, dust pollution etc. He told that the local people will go for protest if the mining activities start again.

**8) Smt. Sunia Munday, Jalda:-**

Smt. Munday opposed the Stone quarry mining project. She also expressed her plight regarding cracks in the house, increasing TB disease patients due to dust pollution and cultivation problem.

**9) Smt. Sunita Behera, Jalda :-**

Smt. Behera opposed the quarry project. She expressed that she faced various difficulties such as flying rocks hit her house where she lives with her four children.

**10)Smt. Jayanti Jena (Maa Tarini Mahila Samiti Secretary):-**

Smt. Jena also opposed the project. She told that due to blasting activities poor people of that area are facing various difficulties such as cracks in their house.

**11)Sri Prabala Pratap Maharana, Construction Colony:-**

Sri Maharana opposed the project. He asked for a review of the problems that people faced for the last 5 years due to the quarry project.

**12)Sri Naresh Kumar Sahu, Utkal nagar:-**

Sri Sahu opposed the project. He asked for a review of the problems that people faced for the last 5 years due to the quarry project. He told that due to blasting activities poor people of that area are facing various difficulties such as cracks in

their house. He told the blasting operation was taking place during night. Children in school and patients in hospital were facing a lot of problem.

**13) Smt. Gandhari Munday, Jalda:-**

She Opposed the stone quarry mining project. She stated that blasting operation were carried out during night time and they are facing difficulties whereas the mines owner has been strictly prohibited for blasting during night time. The previous Lessee has not conducted any developmental work for the local public and villagers. They have not constructed village road and Lessee has not responded during villager's difficult time. She also expressed that they are not facing difficulties due to non operation of the stone quarry mining. She demanded for stoppage of operation of the mine.

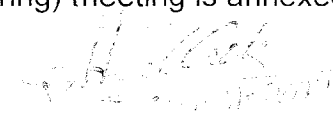
**14) Sri Ajaya Kumar Das, Construction Colony:-**

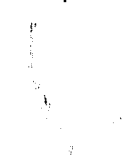
Sri Das opposed the project. He told that due to blasting activities they are facing various difficulties such as cracks in their house.

**15) Smt. Chandan Badu, Hatingtola:-**

Smt. Badu stated that his son is admitted in the hospital due to injury during working in the proposed stone mines. No Government department is responding to her for treatment since last ten years. She also expressed that if the stone quarry resume its operation than the Lessee should will take responsibility of medical charges.

The Sub Collector and Sub Divisional Magistrate, Panposh then elaborated on the issues raised by the public and asked lessee of M/s Jharabahal Stone Quarry – I & II (Under Cluster area 7.0 Ha.) of M/s B.P Construction to explain people on the issues Sri Ranjit Kumar Patra, Power of Attorney Holder of M/s. Jharabahal Stone Quarry-I & II of M/s B.P Construction on behalf of lessee, clarified the issues raised by people which are listed in the Executive Summaries at **Annexure – A & B** respectively in English and Odia. One number of written representation received during meeting and copy enclosed in **Annexure-III**. Dr. Anup Kumar Mallick, Addl. Chief Environmental Scientist and Regional Officer, State Pollution Control Board, Odisha, Rourkela then extended vote of thanks and Sub Collector gave his closing remarks and closed the meeting. The Video recording of the public consultation (hearing) meeting is annexed herewith.

  
Addl Chief Env. Scientist and Regional Officer  
State Pollution Control Board, Odisha,  
Regional Office, Rourkela

  
Sub-Collector and Sub  
Divisional Magistrate,  
Panposh, Sundargarh,

**EXECUTIVE SUMMARY OF PUBLIC CONSULTATION (HEARING) OF MINING OF M/S JHARABAHAL STONE QUARRY- I & II (UNDER CLUSTER AREA OF 7.0 Ha.) OF M/S B.P. CONSTRUCTION WITH TOTAL EXCAVATION OF 26,000 CUM/YEAR OVER MINING LEASE AREA OF 7.0 Ha. IN JHARABAHAL VILLAGE UNDER ROURKELA TAHASIL OF SUNDARGARH DISTRICT. (ODISHA)**

Sl. No.	Issues raised by Public	Comments of the Project Authority
1	<b>Environment:</b> <ul style="list-style-type: none"> <li>• Air pollution control and control of blasting during mining.</li> <li>• Control of dust Pollution in the locality due to mining &amp; transportation.</li> <li>• Plantation to curb pollution and trees in both Sides of road of villages of Jharabahl and near by villages</li> </ul>	<ul style="list-style-type: none"> <li>• Mines Authority will provide water sprinkling system in transporting road and dust suppression system at mining area.</li> <li>• Blasting will be carry out as per guidelines and qualified blaster will be provided by mines management.</li> <li>• Mines Authority will be carry out plantation in co-ordination with Forest Department, &amp; Road development authority, Govt. of Odisha.</li> </ul>
2.	<b>Employment:</b> <ul style="list-style-type: none"> <li>• Employment of local people in the mines on priority basis.</li> </ul>	<ul style="list-style-type: none"> <li>• Employment opportunity will be given as per the skill and qualification. Local villagers will be given priority for employment.</li> </ul>
3.	<b>Peripheral Development</b>	
	I. <b>Road Development:</b> Road improvement from Balanda Village to mine transporting road.	Mines authority will take up the matter by pursuing the matter through Govt. of Odisha for the improvement on road condition and its maintenance.

II. Enhancement of Daily wages above Rs.300/- per day.	E.S.I, E.P.F and daily wages will be provided as per government rules and regulations by the mines authority.
III. Accidental compensation for working in the mine.	Mines authority will take care the accidental compensation for people working in the mine.
IV. Implementation of development work like periphery development, Education, Health and drinking water supply	Mines authority will discuss with local Sarpanch to implement developmental work like periphery development, Education, Health and drinking water supply with consultation of District Administration.
V. Plantation	Company is going to take up mine plantation activity as well as periphery green belt development in co-ordination with Forest Department, Govt. Of Odisha and village committee through a tripartite mode.

*Reject Date (Area of Attorney W/don)*

**Lessee of Jharabahal Stone Quarry- I & II of**

**M/s B.P. Construction**

*Handwritten signature*  
30/11/2023  
**Addl. Chief Env. Scientist and  
Regional Officer, State  
Pollution Control Board,  
Odisha, Regional Office,  
Rourkela**

*Handwritten signature*  
**Sub-Collector and Sub Divisional  
Magistrate, Panposh, Sundargarh**

ଶ୍ରୀ ବି. ପି କଷ୍ଟକ୍ଷମକ ମେସର୍ସ ଝରାବାହଲ ପଥର ଖଣିର କ୍ଲଷ୍ଟର (୧ ଏବଂ ୨) ପାଇଁ ପ୍ରସ୍ତାବିତ ପ୍ରକଳ୍ପ ର ଜନ ପରାମର୍ଶ (ଶୁଣାଣି) ର କାର୍ଯ୍ୟନିର୍ବାହୀ ସାରାଂଶ ।

ସ୍ଥାନ: ସୁନ୍ଦରଗଡ଼ ଜିଲ୍ଲା ଅନ୍ତର୍ଗତ ରାଓରକେଲା ଡାକ୍ତରୀର ଆରଟିଓ-47 ସ୍ଥିତ ଫେଟକଲ ପେଟ୍ରୋଲ ପମ୍ପ ପାଖ (ଝରାବାହଲ ପଥର ଖଣି ୧ ଏବଂ ୨) ଠାରେ ।

ତାରିଖ: ୩୦-୧୧-୨୦୨୩ (ଦିବା ୧୧:୦୦ ଘଟିକା) ।

ସଂଖ୍ୟା.	ଜନସାଧାରଣଙ୍କ ଦ୍ୱାରା ଉଠାଯାଇଥିବା ପ୍ରସଙ୍ଗଗୁଡ଼ିକ	ପ୍ରକଳ୍ପ ପ୍ରାଧିକରଣର ମତବ୍ୟ
୧.	<p>ପରିବେଶ :</p> <ul style="list-style-type: none"> <li>ବାୟୁ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ଏବଂ ଖନନ ସମୟରେ ବିଶୋରଣର ନିୟନ୍ତ୍ରଣ ।</li> <li>ଖଣି ଏବଂ ପରିବହନ କାରଣରୁ ସ୍ଥାନୀୟ ଅଞ୍ଚଳରେ ଧୂଳି ପ୍ରଦୂଷଣର ନିୟନ୍ତ୍ରଣ ।</li> <li>ବାଲାଣ୍ଡା ଗ୍ରାମ ପଞ୍ଚାୟତ ଗ୍ରାମର ଉଭୟ ପାର୍ଶ୍ୱରେ ପ୍ରଦୂଷଣ ରୋକିବା ପାଇଁ ବୃକ୍ଷରୋପଣ ।</li> </ul>	<ul style="list-style-type: none"> <li>ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଖଣିଜ ପଦାର୍ଥ ପରିବହନରେ ରାସ୍ତାରେ ଜଳ ଛିଞ୍ଚିବା-ବ୍ୟବସ୍ଥା ଓ ଖଣି ପରିସର ଅଞ୍ଚଳରେ ଧୂଳି ଦମନ ବ୍ୟବସ୍ଥା ଯୋଗାଇବେ ।</li> <li>ନିର୍ଦ୍ଦେଶାବଳୀ ଅନୁଯାୟୀ ବ୍ଲୁଷ୍ଟି କରାଯିବ ଏବଂ ଯୋଗ୍ୟ ବ୍ଲୁଷ୍ଟିର ଖଣି ପରିଚାଳନା ଦ୍ୱାରା ଯୋଗାଇ ଦିଆଯିବ ।</li> <li>ବନ ବିଭାଗ, ଏବଂ ସଡ଼କ ବିକାଶ କର୍ତ୍ତୃପକ୍ଷ, ଓଡ଼ିଶା ସରକାରଙ୍କ ସହ ସମନ୍ୱୟ ରକ୍ଷା କରି ଖଣି କର୍ତ୍ତୃପକ୍ଷ ବୃକ୍ଷରୋପଣ କରିବେ ।</li> </ul>
୨	<p>ନିୟୁକ୍ତି :</p> <ul style="list-style-type: none"> <li>ପ୍ରାଥମିକତା ଭିତ୍ତିରେ ଖଣିରେ ସ୍ଥାନୀୟ ଲୋକଙ୍କର ନିୟୁକ୍ତି ଏବଂ ସେମାନଙ୍କ ଯୋଗ୍ୟତା ଅନୁଯାୟୀ ସ୍ଥାନୀୟ ଶିକ୍ଷିତ ଯୁବକ ଓ ଯୁବତୀ ମାନଙ୍କୁ ନିୟୁକ୍ତି ।</li> </ul>	<ul style="list-style-type: none"> <li>ଦକ୍ଷତା ଏବଂ ଯୋଗ୍ୟତା ଅନୁଯାୟୀ ନିୟୁକ୍ତି ସୁଯୋଗ ଦିଆଯିବ । ରୋଜଗାର ପାଇଁ ସ୍ଥାନୀୟ ଗ୍ରାମବାସୀଙ୍କୁ ପ୍ରାଥମିକତା ଦିଆଯିବ ।</li> </ul>
୩	ପାରିପାର୍ଶ୍ୱିକ ବିକାଶ :	
	<p>କ) ସଡ଼କ ବିକାଶ:</p> <ul style="list-style-type: none"> <li>ବାଲାଣ୍ଡା ଗ୍ରାମରୁ ଖଣି ପରିବହନ ରାସ୍ତା ପର୍ଯ୍ୟନ୍ତ ରାସ୍ତା ଉନ୍ନତି ।</li> </ul>	ଖଣି କର୍ତ୍ତୃପକ୍ଷ ଏହି ମାମଲାକୁ ଓଡ଼ିଶା ସରକାରଙ୍କ ଦ୍ୱାରା ସଡ଼କ ସ୍ଥିତିର ଉନ୍ନତି ଏବଂ ଏହାର ରକ୍ଷଣାବେକ୍ଷଣ ବ୍ୟବସ୍ଥା କରିବେ ।
	<p>ଖ) ଖଣି ପରିସର ଅଞ୍ଚଳରେ କାମ କରୁଥିବା କର୍ମଚାରୀଙ୍କର ଦୈନିକ ମଜୁରୀ ବୃଦ୍ଧି ।</p>	ସରକାରୀ ନିୟମାବଳୀ ଖଣି ପରିସର ଅଞ୍ଚଳରେ କାମ କରୁଥିବା କର୍ମଚାରୀଙ୍କର ଦୈନିକ ମଜୁରୀ ବୃଦ୍ଧି

		ପ୍ରଦାନ କରାଯିବ ।
ଗ) ଖଣି ପରିସର ଅଞ୍ଚଳରେ କାମ କରୁଥିବା କର୍ମଚାରୀଙ୍କ ପାଇଁ ଦୁର୍ଘଟଣା ଜନିତ କ୍ଷତିପୂରଣ ।		ମାଲଦ୍ୱୁ କର୍ତ୍ତୃପକ୍ଷ ଖଣି ପରିସର ଅଞ୍ଚଳରେ କାମ କରୁଥିବା କର୍ମଚାରୀଙ୍କ ପାଇଁ ଦୁର୍ଘଟଣା ଜନିତ କ୍ଷତିପୂରଣ ବ୍ୟବସ୍ଥା କରିବେ ।
ଘ) ପାରିପାର୍ଶ୍ୱିକ ବିକାଶ, ଶିକ୍ଷା, ସ୍ୱାସ୍ଥ୍ୟ ଏବଂ ପାନୀୟ ଜଳ ଯୋଗାଣ ପରି ବିକାଶ କାର୍ଯ୍ୟକୁ କାର୍ଯ୍ୟକାରୀ କରିବା ପାଇଁ ସଂପୂର୍ଣ୍ଣ ସରପଞ୍ଚଙ୍କ ସାହାଯ୍ୟରେ ଏକ କମିଟି ଗଠନ ।		ଜିଲ୍ଲା ପ୍ରଶାସନର ପରାମର୍ଶ କ୍ରମେ ପରିପାର୍ଶ୍ୱିକ ବିକାଶ, ଶିକ୍ଷା, ସ୍ୱାସ୍ଥ୍ୟ ଏବଂ ପାନୀୟ ଜଳ ଯୋଗାଣ ଭଳି ବିକାଶମୂଳକ କାର୍ଯ୍ୟକୁ କାର୍ଯ୍ୟକାରୀ କରିବା ପାଇଁ ମାଲଦ୍ୱୁ କର୍ତ୍ତୃପକ୍ଷ ସରାପଞ୍ଚ ସହିତ ଆଲୋଚନା କରିବେ ।
ଙ) ବୃକ୍ଷରୋପଣ ।		ଜଙ୍ଗଲ ବିଭାଗ, ଓଡ଼ିଶା ସରକାର, ଗ୍ରାମ କମିଟି ସହ ସମନ୍ୱୟ ରକ୍ଷା କରି ତ୍ରିପାକ୍ଷିକ ମାଧ୍ୟମରେ କମ୍ପାନୀ ଖଣି ବୃକ୍ଷରୋପଣ କାର୍ଯ୍ୟ କରିବା ସହିତ ପରିପାର୍ଶ୍ୱିକ ସବୁଜ ବଳୟ ବିକାଶ କରିବାକୁ ଯାଉଛି ।

*Poojeet Patra (Power of Attorney holder)*

**Lessee of Jharabahal Stone Quarry- I & II of  
M/s B.P. Construction**

*ଅଧିକାରୀଙ୍କୁ ମାଲଦ୍ୱୁକ*  
 ୩୦-୧୧-୨୦୨୩  
 ଅତିରିକ୍ତ ମୁଖ୍ୟ ପରିବେଶ ବୈଜ୍ଞାନିକ  
 ଏବଂ ଆଞ୍ଚଳିକ ଅଧିକାରୀ,  
 ଓଡ଼ିଶା ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ,  
 ରାଉରକେଲା  
 Regional Officer  
 State Pollution Control Board Odisha  
 ROURKELA

*ଅଧିକାରୀଙ୍କୁ ମାଲଦ୍ୱୁକ*  
 ୩୦-୧୧-୨୦୨୩  
 ଉପ-ଜିଲ୍ଲାପାଳ, ପାନପୋଷ,  
 ଜିଲ୍ଲା: ସୁନ୍ଦରଗଡ଼, ଓଡ଼ିଶା  
**Sub-Collector**  
 PANPOSH



1755



**STATE POLLUTION CONTROL BOARD, ODISHA**  
(Department of Forest, Environment & Climate Change Govt. of Odisha)  
Parivesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar - 751012



No. 16516 / IND-II-PE-1179

Date - 19/10/2023

CAD-2540

**NOTICE**

It is brought to the notice of all concerned that M/S B.V. Construction has proposed to have Environmental Assessment for Jharabahal Stone Quarry - I & II (Under Cluster Area 70 Ha.) in village Jharabahal under Rourkela tehsil of Sundergarh district in Odisha. Environmental Clearance from State Environment Impact Assessment Authority (SEIAA) Odisha. The proposal has applied to the State Pollution Control Board, Odisha, Bhubaneswar for a Public Hearing.

By virtue of Ministry of Environment, Forest & Climate Change Government of India Notification No. S.O. 1531 (E) Dtd. 14/09/2006, the Board has been authorized to conduct environmental public hearing and as such invites suggestions, views, comments and objections on matters relating to environmental aspects of the proposed project from all the persons including landline residents, environmental groups and others located at the proposed site / sites of displacement / sites likely to be affected.

For the above purpose, a period will only mean:

- A. Any person who is likely to be affected by the grant of Environmental Clearance.
- B. Any person who owns his control over the project with respect to which an application has been submitted for environmental clearance.
- C. Any association of persons whether incorporated or likely to be affected by the project and/or functioning in the field of environment.
- D. Any local authority within any part of whose local limits is within the neighborhood wherein the project is proposed to be located.

Persons at above who desire to submit their views, comments, objections etc. relevant to the project may do so in writing within 30 days from the date of publication of this notice addressing the same to the Member Secretary, State Pollution Control Board, Odisha through Registered Post. Besides this persons interested to submit their views relevant to the proposed mining project in writing or orally may also do so during the public hearing to be conducted on 30-11-2023 at 11.00 A.M. at Vencol Petrol Pump (Near Jharabahal Stone Quarry - I & II) village - HTU-47, P.S - Tangarpali under Rourkela tehsil of Sundergarh District.

Persons desirous of participating in the public hearing may go through the Environmental Impact Assessment (EIA) / Environmental Management Plan (EMP) of the said project which will be available at the following offices. Copy of the Executive Summary both in English & Odia is also available in the following offices & the same can also be downloaded from the website [www.ospcboard.org](http://www.ospcboard.org) free of cost.

- 1. District Collector's Office, Sundergarh.
- 2. District Industries Center Sundergarh.
- 3. In the office of the Chief Executive Officer, Zilla Parishad, Sundergarh.
- 4. In the Head office of the State Pollution Control Board, Odisha, Parivesh Bhawan, A/118, Nilakanthanagar, Unit - VIII, Bhubaneswar-12.
- 5. Regional Office, State Pollution Control Board, Odisha, Rourkela.
- 6. Department of Forest & Environment (Environment), Govt. of Odisha, Bhubaneswar.

For any further clarification in the matter, the Regional Officer, State Pollution Control Board, Rourkela or the Member Secretary, State Pollution Control Board, Odisha at Bhubaneswar may be contacted.



OSPCB-PH-MISC-0070-2023/12023

OIPR-06012/110123/2324

Sd/  
MEMBER SECRETARY

*The New Sunday Express Rt-22-10-22 P-7*

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