

EXECUTIVE SUMMARY

FOR

MASONRY STONE & GRANITE (MINOR MINERAL) MINING PROJECT

LOCATED AT

NEAR VILLAGE- KANA PAHAR of TEHSIL & DISTRICT-JHUNJHUNU (Raj.)

M.L. NO-172/89 & TOTAL LEASE AREA- 42.3317 HA.

**PROPOSED PRODUCTION CAPACITY OF 6386640 TPA (ROM)
{Granite - 1820192.4 TPA & Masonry Stone - 4247115.6 TPA
& Waste - 319332 TPA}**

PROJECT COST- 2500 LAKHS

STUDY PERIOD: DECEMBER 2023 TO FEBRUARY 2024

**[Project comes under category "B1" as per MoEF&CC notification dated 14.09.2006
& Its Amendments]**

**TOR LETTER NO.: F1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat.B1 (20732) /2023-24,
Dated 26.03.2024, issued by SEIAA, Rajasthan**

APPLICANT

M/S JAWAN ROCK MOVERS PRIVATE LIMITED

Shri Shyam Singh Katewa (Authorized Signatory)

**Add: Flat No.-G-1, Ground Floor, Ajeet Apartment, Plot No.-1, Shri
Ram Nagar A, Khirni Fatak Road, Jaipur (Raj.)-302012**

E-mail: jaijawanrockb1@outlook.com & Mob. No. - 9414082000

ENVIRONMENT CONSULTANT

VIBRANT TECHNO LAB PVT. LTD

(QCI/NABET ACCREDITED NO. NABET/EIA/2225/IA0104)

SC-40, 3RD FLOOR, NARAYAN VIHAR S, AJMER ROAD, JAIPUR (RAJ)-302020

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PROJECT DESCRIPTION

This is Masonry Stone & Granite (Minor Mineral) Mining Project with Production Capacity of 6386640 TPA (ROM) {Granite - 1820192.4 TPA & Masonry Stone - 4247115.6 TPA & Waste - 319332 TPA}, M.L. No-172/89, Area-42.3317 Ha., Located at, N/v-Kana Pahar, Tehsil & District- Jhunjhunu (Rajasthan) of M/s Jawan Rock Movers Private Limited.

- Originally The mining lease was sanctioned in favour of Shri Sadeek S/o Shri Fareed Khan at N/v-Kana Pahar, Tehsil & Dist-Jhunjhunu (Rajasthan) over an area of 92.903 Ha., ML No-95/68, Mineral-Masonry Stone by Department of mines and geology, Govt. of Rajasthan for 5 years from the mining leases registration date 27.12.1969 i.e 27.12.69 to 26.12.1974.
- The Mining leases were transferred in favour of Shri Jagdish Prasad Mahajan by Department of mines and geology, Govt. of Rajasthan vide order no. D/W/ML/95/68/346-351, dated 04.02.1972 for the rest period.
- The first Renewal of Mining Leases was comes in force on dated 27.12.1974 for 5 years i.e 27.12.1974 to 26.12.1979 & renewed the ML No 95/68 to 64/74 by Department of mines and geology, Govt. of Rajasthan vide order dated 01.11.1975.
- The Second Renewal of Mining Leases was comes in force on dated 27.12.1979 for 10 years i.e 27.12.1979 to 26.12.1989 & renewed the ML No 64/74 to 92/79 by Department of mines and geology, Govt. of Rajasthan vide order dated 17.12.1981.
- The Third Renewal of Mining Leases was comes in force on dated 13.06.1990 for 10 years i.e 27.12.1989 to 26.12.1999 & renewed the ML No 92/79 to 172/89 by Department of mines and geology, Govt. of Rajasthan vide order dated 13.06.90.
- The period of Third Renewal of Mining Leases was extended to 20 years was comes in force on dated 11.06.1997 for 20 years i.e 27.12.1989 to 26.12.2009 by Department of mines and geology, Govt. of Rajasthan vide order dated 11.06.1997.
- Due to death of Shri Jagdish Prasad Mahajan on dated 30.11.1997, the mining lease was muted in the favour of Shri Ramprakash Mahajan S/o Shri Jagdish Prasad Mahajan by SME, Department of mines and geology, Govt. of Rajasthan, Jaipur Circle vide order no. SME/JAI/NEEM/P.16/89/111, dated 19.03.1998. The rider agreement was executed on dated 01.06.1998 & registered on dated 02.09.1998 for the rest of mining lease period.

- The Mining Lease was again transferred in favour of M/s Jawan Rock Movers Private Limited by ADM, Department of mines and geology, Govt. of Rajasthan, Jaipur Circle vide order no. SME/JAI/SIKAR/MM/Trans./06-07/109, dated 15.02.2007 & transferred deed were registered on dated 17.02.2007 for the rest lease period.
- The lessee M/s Jawan Rock Movers Private Limited submitted a fourth renewal application with part surrender of an area of 50.71 Ha. from the original lease area 92.903 Ha. to the Dept. of Mines & Geology on dated 15.07.08. As per the request letter of lessee. The office of ME, Dept. of Mines & Geology, Sikar with letter no. 687, dated 24.12.09 & report of the department dated 26.12.2009, The Dept. of Mines & Geology, Govt. of Rajasthan accepted the request & surrender the 50.6189 Ha. area in favour of department. The lease area 42.3317 Ha. area is saved for mining with the lessee. The rider agreement of the rest area 42.3317 Ha. was executed on dated 19.08.2019 & registered on dated 19.08.2019.
- The period of the lease has been extended up to 31.03.2025 by the Department of mines and geology, Govt. of Rajasthan as per the RMMCR, 2017, rule 9(3). The rider agreement for the extended lease period was executed on dated 29.08.2019 & registered on dated 02.09.2019.
The Lease documents are enclosed as Annexure-2.
- The LOI for inclusion of mineral Granite (Minor Mineral) was issued by DMG vide letter no. DMG/P-2(H-1) Jhunjhunu/17/1043, dated 30.09.2021 in favour of M/s Jawan Rock Movers Private Limited. The LOI is enclosed as Annexure-3.
- The current Modified Mining Plan with Progressive Mine Closure Plan submitted (under Rule 29) of RMMCR,2017 & (under Rule 12) of Granite Conservation & Development Rules,1999 and has been approved by ADM, Department of mines and geology, Govt. of Rajasthan, Jaipur Circle, vide letter ADM/JAI/M.Plan/P-77/2021/383 dated:-30.12.2021 is enclosed as Annexure-4.
- The project comes in Aravalli range but not in the list of restricted mining operation lease, submitted by Dept. of Mines & Geology in the Hon^{ble} Supreme Court of India & not violated the order passed by the Hon^{ble} Supreme Court of India in matter of writ no. 202/1995 (Godavarman verses Union of India) dated 08.04.2005 CP (C) 412/2004 as per the letter of ME, Department of mines and geology, Govt. of Rajasthan, Jhunjhunu vide letter no ME/Jhunjhunu/machi/ML No-172/89/781, dated 24.05.2022 & no cluster situation is formed in this project as per the letter of ME, Department of mines and

geology, Govt. of Rajasthan, Jhunjhunu vide letter no ME/Jhunjhunu/MLNo-172/89/780, dated 24.05.2022. The Aravalli & Cluster Certificates are enclosed as Annexure-5.

- The project being one of minor mineral having lease area of 92.90 hectare, came under the purview of the EIA Notification dated 14.09.2006 of the MoEF& CC. According to the certificate dated 15.02.2024 of ME, Jhunjhunu, the production of mineral was in year 2005-06 is 16397 MT & year 2006-07 is 17026 MT & year 2007-08 is 40606 MT & year 2008-09 is 24194 MT & year 2009-10 is 9508 MT, the mine working was closed since 26.12.2009. As the EIA Notification of 14.09.2006 & Circular dated 02.07.2007 of MOEF&CC stated that, all such mining project, which didn't require environmental clearance under the EIA Notification, 1994 would continue to operate without obtaining environmental clearance till the mining lease falls due to renewal, if there is no increase in lease area and/or there is no enhancement of production. In the event of any increase in lease area and or production, such project would need to obtain prior environmental clearance. The Third Renewal of Mining Leases was comes in force on dated 13.06.1990 for 10 years i.e 27.12.1989 to 26.12.1999 & renewed the ML No 92/79 to 172/89 by Department of mines and geology, Govt. of Rajasthan vide order dated 13.06.90 & The period of Third Renewal of Mining Leases was extended to 20 years was comes in force on dated 11.06.1997 for 20 years i.e 27.12.1989 to 26.12.2009 by Department of mines and geology, Govt. of Rajasthan vide order dated 11.06.1997. The project proponent get the CTO from RSPCB for the production of masonry stone with production capacity of 150 MT/annum (45000 TPA), vide letter dated 01.08.2005 with validity from 30.07.2005 to 29.07.2008 & The project proponent get the CTO from RSPCB for the production of masonry stone with production capacity of 150 MT/annum (45000 TPA), vide letter dated 27.08.2009 with validity from 30.07.2008 to 27.12.2009, while after the expire of CTO from RSPCB the mining operation was closed i.e 26.12.2009. According to the certificate dated 15.02.2024 of ME, Jhunjhunu, the production of mineral was in year 2005-06 is 16397 MT & year 2006-07 is 17026 MT & year 2007-08 is 40606 MT & year 2008-09 is 24194 MT & year 2009-10 is 9508 MT was less than the permitted capacity of issued CTO by RSPCB. The renewal of mining lease was also prior to the issue of the EIA Notification dated 14.09.2006, the project, therefore, is not one of violation of the EIA Notification. The CTO issued by RSPCB is enclosed as Annexure-6 & the authenticated past production data issued by Mining Department is enclosed as Annexure-7.
- No prior EC was obtained by the Project Proponent in past. The Lease area is 42.3317 Ha. and General Condition does not applied on the project. The project comes under 'B1' Category. Proposal is applied for grant of Environmental clearance under EIA Notification 2006 and subsequent amendments till date. As per notification it comes under

jurisdiction of the State Environment Impact Assessment Authority (SEIAA). Total land of mining lease consists of Govt. Land. No forest land is involved in this area. No national park or wildlife is present within 10.0 km radius of the lease area.

- In this EIA data of one season is collected i.e. from 1st December 2023 to 29th February 2024. The ToR was issued on date 26.03.2024, vide letter number F1(4)/SEIAA/SEAC-Raj/Sectt/Project/Cat.B1(20732)/2023-24 by SEIAA, Rajasthan.

Category "B1": As per EIA Notification dated 14th September, 2006 of MoEF&CC & subsequent amendments this project falls under Category "B1".

MINE SITE DETAILS

S.No.	Particulars	Details																																								
1.	M.L No.	172/89																																								
2.	Name of Mineral	MASONRY STONE & GRANITE (MINOR MINERAL)																																								
3.	Khasra Nos.	2777,2780,4673/2776,2764,2765,2768,2771,2762,2763,1757,1753/4087,1752/4086,1734,1752,1718,1719 and 1753																																								
4.	Land Type	Govt. Land																																								
5.	Area	42.3317 HA.,																																								
6.	Latitude & Longitude	<table border="1"> <thead> <tr> <th colspan="2">Pillars</th> <th>Longitude (Degree, Min, Sec)</th> <th>Latitude (Degree, Min, Sec)</th> </tr> <tr> <th>From</th> <th>To</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>FRP</td> <td>A</td> <td>75° 23' 13.66576"</td> <td>27° 0' 25.34"</td> </tr> <tr> <td>A</td> <td>a</td> <td>75° 23' 14.94398"</td> <td>27° 0' 24.85"</td> </tr> <tr> <td>a</td> <td>b</td> <td>75° 23' 25.16758"</td> <td>27° 0' 24.19"</td> </tr> <tr> <td>b</td> <td>c</td> <td>75° 23' 34.73752"</td> <td>27° 0' 23.35"</td> </tr> <tr> <td>c</td> <td>d</td> <td>75° 23' 36.85308"</td> <td>27° 0' 21.52"</td> </tr> <tr> <td>d</td> <td>e</td> <td>75° 23' 31.08246"</td> <td>27° 0' 16.34"</td> </tr> <tr> <td>e</td> <td>f</td> <td>75° 23' 25.34492"</td> <td>27° 0' 20.95"</td> </tr> <tr> <td>f</td> <td>a</td> <td>75° 23' 14.94398"</td> <td>27° 0' 18.94"</td> </tr> </tbody> </table>	Pillars		Longitude (Degree, Min, Sec)	Latitude (Degree, Min, Sec)	From	To			FRP	A	75° 23' 13.66576"	27° 0' 25.34"	A	a	75° 23' 14.94398"	27° 0' 24.85"	a	b	75° 23' 25.16758"	27° 0' 24.19"	b	c	75° 23' 34.73752"	27° 0' 23.35"	c	d	75° 23' 36.85308"	27° 0' 21.52"	d	e	75° 23' 31.08246"	27° 0' 16.34"	e	f	75° 23' 25.34492"	27° 0' 20.95"	f	a	75° 23' 14.94398"	27° 0' 18.94"
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7.	Near Village	Kana Pahar																																								
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9.	District	Jhunjhunu																																								
10.	State	Rajasthan																																								
11.	Toposheet No.	44P/8																																								
12.	Serial no. in schedule	1(a) Mining of mineral																																								
13.	Nearest Railway Station/ Airport	Nearest railway station is Jhunjhunu which is about 1.85 Km in South direction from the mining lease area.																																								

		Nearest Airport is at Jaipur Airport about 143 km in SE direction from the mine site.
14.	National Park/WLS/ Conservation Reserves	No NP/WLS areas are located within the 10 km radius of the lease area. NOTE: The DCF, NOC is attached as Annexure-8
15.	Biosphere Reserve	No such areas are located within the 15 km radius of the lease area
16.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	In the lease area Jamuvay Mata Mandir, Rajia Mosque are the local legislation for their ecological, landscape, cultural or other related value areas are falling
17.	Reserve Forest/Protected Forest	Jhunjhunu Bid P.F. is 2.70 km in NE direction from Mining Area.
18.	National Highway/State Highway	<ul style="list-style-type: none"> ➤ MDR-82 at 0.18 km in NE direction ➤ SH-41 at 0.12 km in N direction ➤ SH-37 at 0.7 km in NW direction ➤ SH-8 at 1.80 km in South direction ➤ NH-11 at 1.0 km in SW direction from mine site.
19.	Water Bodies	<ul style="list-style-type: none"> ➤ Kantli River is 14.6 km in East direction from Mining Area ➤ Pond (Jamuvay Mata Mandir) is exist at inside the lease area. ➤ Pond at a distance of 1.15 km in SE direction.
20.	Densely populated area	Nearest populated area is District Jhunjhunu which is about 0.0 km from lease area. In this mining project the some encroachment population of the district is falling within the lease area & we undertake that, the mining operation will not be carried out in that section & in rest area the mining operation will be carried out as per MMDR & RMMCR rules & regulation & as per approved mine plan & with the prior approval from DGMS.
21.	Cost Details	
A	Cost of the project	Rs.2500 Lakhs (Capital Cost)
B	Cost of CER	Rs. 50.0 Lakhs/yr.
C	Cost for EMP	Rs. 109.50 Lakhs/yr.

(Source: Site visit /Baseline Data and Pre-feasibility Report)

Need and Benefits of Project:

The said project plays a significant role in the domestic as well as infrastructural market. The lessee supply mineral as industrial and construction Stone to various small/Medium/large scale industries which are situated in other states and nearby areas.

The Masonry stone is a basic raw building construction material for constructing houses, bridges and roads. It is used in RCC construction material due to its easy workability. Thus, keeping in mind this requirement, mining of Masonry Stone is necessary for durability and to beautify by carving as per the requirement of the consumer.

Granite is one of the most common rocks that is known to human beings and is used quite extensively in our lives. It is classified as a form of igneous rock. Granite uses vary drastically in our world, but due to its extreme strength, it is used a lot. As far as the appearance of this rock is considered, it has quite a grainy surface that is large enough to be seen by the naked eye. So, to proceed with discussing the several uses of stone, let us take a look at its other fundamental properties. Granite is the most used in the kitchen of houses as kitchen countertops. Due to their polished and shiny appearance, they are used extensively in kitchens as countertops, backsplashes, etc., around the world. Granite buildings have also been observed to have a place in a lot of societies since the middle ages. Due to the sturdy nature of the stone and its frost and fire resistance, granite was and is still sometimes used to build buildings all around the world. Other than that, granite can also be used as a decorative stone to adorn the appearance of a building. Granite flooring is also very prevalent in the world. Due to their strength and appearance, they are used in abundance in flooring, tiling, etc.

The project is beneficial to the industry of the State as well as surrounding States. The royalty generated from the proposed mining will be an additional advantage to the state Government. The proposed mining activities shall increase the better opportunities in the field of employment sector. Average income level, which is the indicator of socioeconomic status of house hold, and is expected to increase exponentially with additional income from the mining industry. It is expected that in a flourishing environment, people will take help of banking and other services, which will further uplift the living and economic standard as well. The project will generate direct and indirect employment for the locals of nearby villages. The State Government will be benefitted from the royalty taxes received from the mining activities in the region. The proponents will imply suitable EMP which will act as the aesthetic and social upliftment of the area.

Details of Mining

Mining Details		
S.No.	Particulars	Details
1.	Method of Mining	Open cast semi Mechanized mining method.
2.	Mineable Reserves	20589493.92 T for Masonry Stone 8824068.82 T for Granite Mineral
3.	Elevation Range of the Mine Site	Highest RL- 385 mRL, Lowest RL- 340mRL
4.	Proposed Production	The Proposed Production capacity- 6386640 TPA (ROM) {Granite - 1820192.4 TPA & Masonry Stone - 4247115.6 TPA & Waste - 319332 TPA}
5.	Life of Mine	17.0 years The Life of Mine may be vary & it depends on the actual production from the ML in future.
6.	General Ground Level	330 mRL
7.	Ground Water Table	100-110 mbGL (230-220 mRL).
8.	UPL (Ultimate Pit Limit)	22 m BGL (308m RL)

Machinery to be deployed is listed below:

S. No.	Machine	No's	Capacity
1	Air Compressor	5	120 psi
2	Jack Hammer	As required	32/100 mm dia
3	Wagon drill	3	100 mm dia
4	Derrick Crane	5	30-40 ton
5	Dumper (Purchase & Hire Basis)	20	20 tonne
6	Excavator	3	1.2 m3
7	Mobile Crains	5	40 tonne
8	Diamond Wire Saw	As required	As required
9	Tractor with water tank	1	5000 ltr
10	Hydraulic Loaders	As required	As required
11	Tippers	As required	As required
10	D.G. Set	As required	As required

Source: Approved Mining Plan

Water Requirement

About 30.0 KLD water will be required for mining & plantation & domestic & pollution control. Source: The Water will be sourced by hiring of tankers from nearby areas.

Manpower requirement

The mine owner shall employ mine official (Mines Manager, Forman) in accordance with the provision of the RMMCR 2017 & MMR 1961. The workers to be employed shall be semi-skilled and unskilled. Most of them will come from the nearby villages. The project will employ most suitable workers from nearby areas. Local people from nearby villages will be given preference. By this mining project 250 peoples get directly employment & approx. 1700 peoples get indirectly employment.

Baseline Environment Status

Parameters	Baseline Status
Ambient Air Quality	PM 10 - 44.84 to 84.22 $\mu\text{g}/\text{m}^3$ PM 2.5 - 23.60 to 49.54 $\mu\text{g}/\text{m}^3$ SO ₂ - 6.52 to 18.58 $\mu\text{g}/\text{m}^3$ NO _x - 13.04 to 30.96 $\mu\text{g}/\text{m}^3$
Noise Level	Noise Level During Day Time – 47.8 to 58.3 Leq. (dB)A Noise Level During Night Time – 37.4 to 46.9 Leq.(dB)A
Water Quality	Ground Water: <ul style="list-style-type: none"> • pH varies from to 7.14 to 7.78 • Total Hardness varies from 308.0 to 506.0 mg/L. • Total Dissolved Solids varies from 607.0 to 986.0 mg/L. • Chlorides varies from 99.1 to 191.30 mg/L. • Fluoride varies from 0.29 to 0.63 mg /L. • Nitrate varies from 19.7 to 27.0 mg/L. • Iron varies from 0.19 to 0.43 mg/L. Surface Water: <ul style="list-style-type: none"> • pH 7.10 • Total Hardness 165.0 mg/L. • Total Dissolved Solids 344.0 mg/L. • Chlorides 41.50 mg/L. • Fluoride 0.50 mg /L.

	<ul style="list-style-type: none"> • Nitrate 9.20 mg/L. • BOD 6.0 mg/L. • COD 29.6 mg/L.
Soil Quality	<p>The analysis results show that soil is basic in nature as pH value ranges from 7.70 to 8.68 with organic matter 0.58 % - 0.77 %. Water holding capacity is found to be in range of 26.34 to 39.46 %. The concentration of Nitrogen (158.26 Kg/ha. to 246.40 Kg/ha.) Phosphorus (14.98 to 32.81 Kg/ha.) has been found to be in good amount in the soil samples. The soil is found to be suitable for the agricultural purpose. The soil will not be affected by proposed mining project & its allied activities have not affected the soil quality of nearby area</p>
Ecology And Biodiversity	<p>During field study Seven (7) schedule-I species have been reported from the study area, details are given in Chapter-3.</p>

ENVIRONMENTAL AND SOCIAL RESPONSIBILITY

Proposed CER Activities -Apart from the various environmental protection measures, the project proponent is conscious of its social responsibility and as any good corporate citizen, it is proposed to undertake the following works in the surrounding areas of the mine.

- Community Health Improvement activities such as periodically medical checkup camps, blood donation camps and health awareness camps for child and mother care, health and hygiene practices shall be implemented
- Disinfection of dug wells and other potable water sources and awareness camps shall be organized on water borne diseases, health and hygiene etc.
- Improvement in community educational activities will cover the distribution of educational books, stationary and aids and other infrastructure facilities etc.
- Decrease water scarcity problem at a possible extent during scarcity period through conducting water conservation programs and by built up rain water harvesting pits.
- Afforestation programs will involve the activities such as greenbelt development, plantation of trees in villages' road side and development of nursery for maintaining the greenery of the area & preventing pollution.

Therefore, the proposed mining project can be considered "significantly positive" i.e. keep regular watch on adverse impacts through practicing pollution control measures and post monitoring with simultaneous contribution towards raising standard of living of the people in study area together with its development. The project proponent proposed to incur Rs.

109.50 Lakhs per annum towards EMP & Rs. 50.0 Laks/year under Social Responsibility (CER) and 9.50 Lakhs/year for Labour Welfare Amenities for workers given below in table

ECONOMIC PROVISION FOR BASIC AMENITIES (CER)

S. No.	Planned Activities under ESR as per specific needs	Proposed Budget (Lakhs/Year)
	Community Education Facilities	
1.	<ul style="list-style-type: none"> • Augmentation of furniture, blackboard, etc in village schools • Award scholarship to meritorious students • Distribution of educational books, stationary, uniforms and aids etc. 	10.0
	Community Health Improvement	
2.	<ul style="list-style-type: none"> • Disinfection facilities for dug wells and other potable water sources. • Periodically medical checkup camps, blood donation camps. • Eye checkup camps • Health awareness camps for child and mother care, health and hygiene practices. 	10.0
	Community Welfare Activities	
3.	<ul style="list-style-type: none"> • Worship places development & beautification • Distribution of seeds & saplings • Promotion & support to various Govt. Schemes. 	5.0
4.	Infrastructural Development	
	<ul style="list-style-type: none"> • Installation/ Repair of Hand Pumps/ Bore wells • Grampanchayat dug-well de-siltation and deepening • Construction and maintenance of village roads adjacent to project site 	00.0
5.	Community Water Conservation	
	<ul style="list-style-type: none"> • Funds for Rain water harvesting ponds in nearest village • Water conservation awareness programs 	10.0
6.	Community Capacity Building	
	<ul style="list-style-type: none"> • Imparting vocational training for technical skills, self-employment training for women as stitching, embroidery, tailoring, handicrafts 	5.0
Total		50.0

ECONOMIC PROVISION FOR ENVIRONMENTAL MANAGEMENT PLAN (EMP)

S. No.	Description	Capital Cost in Rs. (Lakhs)	Recurring Cost in Rs./Annum (Lakhs)
1	Pollution Monitoring of Ambient Air, Noise, Water & Soil Quality	---	4.0
2	Pollution Control Measures (Water Sprinkling others)	---	8.0
3	Green Belt Development including protection	75.60	70.0
4	Construction of Rainwater harvesting Structure within the mine lease area to recharge the ground water table and also construction of Garland drains & Settling tank around the mining pits which is connected to RWH structure	15.0	3.0
5	Construction & Maintenance of Haul Road/approach road (Metallic)	10.0	3.0
6	Installation of Modular STP@ 5.0 KLD	7.50	1.0
7	Maintenance of Mining Machinery	----	20.0
8	Municipal waste & Hazardous Waste management	2.0	0.50
TOTAL		110.10	109.50

DETAIL OF PROPOSED LABOUR WELFARE BUDGETUARY PROVISIONS

S.NO.	Particulates	Capital Cost (in Rs. Lacks)	Recurring Cost (Rs. Lacks /Yr.)
1.	Rest Shelter (120 X 20 Feet), 2 Nos	15.0	0.50
2.	Drinking water facility	5.0	1.0
3.	Toilet Facility (4 units for Male & Female)	10.0	0.50
4.	Fuel for cooking	-	3.0
5.	Medical facility for labors (First Aid Box)	-	0.50
6.	Health Insurance for labors		4.0
Total		30.0	9.50/-

- Development of Green Belt:** Under the afforestation plan, plantation in safety zones of mining lease area, un-worked area & outside the lease area will be undertaken. The implementation for development of greenbelt will be of paramount importance as it will not only add up as an aesthetic feature but will also act as a pollution sink. The species to be grown in the areas should be dust tolerant and fast growing species so that a permanent greenbelt is created. Plantation in the barrier zone and roads is necessary as these areas will contain fine particulates resulting from mining operation and vehicle movement. Plantation will also be carried out as social forestry program in village, school and the areas allocated by the Panchayat/State authorities. Native plants like Neem, Shisham, Desi Babool, Khejri, Amla, Ardu & other native species & suggested by forest officials other native species & suggested by forest officials will be planted. A suitable combination of trees that can grow fast and also have good leaf cover shall be adopted to develop the greenbelt. It is proposed to plant 14000 numbers of native species in next three years by PP of lease area along with some fruit bearing and medicinal trees during the plan period:-

Plan for Afforestation

Year	Plantation on lease area (7.5 mtr safety zone boundary & Un-worked area & outside the lease area)		Cost of sapling along with maintenance		Name of species	Places of plantation
	Area (Ha.)	No. of Trees	Capital cost	Recurring cost		
2024-25	6.0	6000	Plant & Tree Guard Cost	Maintenance/Watering/Manuring	Neem, Shisham, Desi Babool, Khejri, Ardu, Amla & other native species & suggested by forest officials other native	Plantation will be done inside the lease area in 7.5 mtr safety zone boundary & un-worked area & outside the lease area
2025-26	6.0	6000				
2026-27	2.0	2000 Replacement of Non-Survival Species of year 2024-27 @ 20 % i.e. 2800 Nos.				
2028 to continue	Maintenance/Watering/Manuring					

Total	14.0	14000	Rs. 75,60,000/-	Rs. 70,00,000/-	species & suggested by forest officials	
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CONCLUSION

The project will also provide impetus to industrialization of the area and mining would be boon for the district as it will not only result in employment opportunity but also infrastructure development and overall growth of the area.

