कार्यालय : प्रधान मुख्य वन संरक्षक–सह–कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, राँची।

वन भवन, डोरण्डा, राँची, झारखंड, पिन–834002, Email-pccf-ednodal@gov.in

पत्रांक :– 385 दिनांक :– 13/8/2025

सेवा में,

सचिव,
वन, पर्यावरण एवं जलवायु परिवर्तन विभाग,
झारखण्ड सरकार, राँची।

विषय :– **मौजा–पहाड़पुर थाना गांवा थाना नं0 164 जिला–गिरीडीह पी0एफ0 में पहाड़पुर स्टोन डिपोजिट** (Deposit) **हेतु कुल 4.856 हे0 वनभूमि अपयोजन के प्रस्ताव के संबंध में।**

प्रसंग :– 1. विभागीय पत्रांक 794 दिनांक 01.03.2025
2. अपर प्रधान मुख्य वन संरक्षक, बोकारो के पत्रांक 663 दिनांक 17.04.2025

महाशय,

उपरोक्त विषयक के संबंध में सूचित करना है कि विषयगत परियोजना प्रस्ताव पर विभागीय प्रासंगिक पत्र द्वारा दो बिन्दुओं पर पृच्छा की गयी है, जो निम्नवत् है:–

क्र0सं0	पृच्छा	अनुपालन
1	जिला खनन पदाधिकारी, गिरिडीह के पत्रांक 565 दिनांक 19.05.2023 की प्रति।	जिला खनन पदाधिकारी, गिरिडीह के पत्रांक 565 दिनांक 19.05.2023 की प्रति **अनु0–01** के रूप में संलग्न है।
2	प्रयोक्ता अभिकरण द्वारा समर्पित Mining Plan के अनुमोदन् संबंधी सक्षम स्तर से परित आदेश की प्रति।	प्रयोक्ता अभिकरण द्वारा समर्पित Mining Plan के अनुमोदन संबंधी सक्षम स्तर से परित आदेश की प्रति **अनु0–02** के रूप में संलग्न है।

विभाग द्वारा की गयी पृच्छा का निराकरण प्रतिवेदन अपर प्रधान मुख्य वन संरक्षक, बोकारो के पत्रांक 663 दिनांक 17.04.2025 (छायाप्रति संलग्न) द्वारा इस कार्यालय में समर्पित किया गया है। प्राप्त विभाग द्वारा की गयी पृच्छा का निराकरण प्रतिवेदन की तीन प्रतियों में इस पत्र के साथ संलग्न करते हुये अनुरोध है कि विषयगत परियोजना पर अग्रतर कार्रवाई करने की कृपा की जाय।

संचिका में प्रधान मुख्य वन संरक्षक, (HoFF) झारखण्ड, राँची का अनुमोदन प्राप्त है।

अनु0–यथोक्त।

अनुपालन प्रतिवेदन तीन प्रतियों में।

विश्वासभाजन

ह0/–
प्रधान मुख्य वन संरक्षक–सह–कार्यकारी निदेशक,
बंजर भूमि विकास बोर्ड, झारखण्ड, राँची।

ज्ञापांक 385 दिनांक 13/8/2025

प्रतिलिपि :– अपर प्रधान मुख्य वन संरक्षक, बोकारो/जय बाबा पताल स्टोन माईन्स क्रसर प्रा0 लि0 गिरीडीह को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

13/8/25
प्रधान मुख्य वन संरक्षक–सह–कार्यकारी निदेशक,
बंजर भूमि विकास बोर्ड, झारखण्ड, राँची।

E:\Vikash\Balram Sir\ROAD\मौजा-पहाड़पुर पी0एफ0 थाना गांवा कुल 4.856 हे0.docx

Balram 09/8/25

कार्यालयः वन संरक्षक, प्रादेशिक अंचल, गिरिडीह।

मोहनपुर, पोस्ट–पचम्बा, जिला–गिरिडीह–815316

SAVE TREE

Email: cf-giridih@gov.in, cfgiridih@gmail.com

पत्रांक:– 176 /दिनांक:– 05-04-2025

प्रेषक,

वन संरक्षक,
प्रादेशिक अंचल,
गिरिडीह।

सेवा में,

अपर प्रधान मुख्य वन संरक्षक,
बोकारो।

विषयः- मौजा- पहाडपुर, थाना गावां, थाना नं0 -164, जिला–गिरिडीह पी0एफ0 में पहाडपुर स्टोन डिपोजिट हेतु कुल 4.856 हे0 वन भूमि अपयोजन का प्रस्ताव के संबंध में।

प्रसंगः- प्रधान मुख्य वन संरक्षक–सह–कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, राँची का ज्ञापांक- 207 दिनांक–06.03.2025 एवं वन प्रमण्डल पदाधिकारी, गिरिडीह पूर्वी वन प्रमण्डल का पत्रांक–1026 दिनांक- 29.03.2025

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में सूचित करना है कि विषयक परियोजना हेतु गिरिडीह पूर्वी वन प्रमण्डल द्वारा त्रुटियों का निराकरण कर प्रस्ताव इस कार्यालय में समर्पित किया गया है। जिसे इस पत्र के साथ मूल रूप छः प्रतियों में संलग्न कर भेजी जा रही है।

सूचनार्थ एवं आवश्यक कार्रवाई हेतु समर्पित।

अनु0–यथोक्त।

आपका विश्वासी,

वन संरक्षक,
प्रादेशिक अंचल, गिरिडीह।

O/C

कार्यालय, वन प्रमण्डल पदाधिकारी, गिरिडीह पूर्वी वन प्रमण्डल।

मोहनपुर, पोस्ट–पचम्बा, जिला–गिरिडीह, पीन कोड–815316
email-dfo-giridiheast@gov.in, Phone No.-06532-222127

पत्रांक– 1026 दिनांक– 28/03/25

सेवा में,

वन संरक्षक,
प्रादेशिक अंचल,
गिरिडीह।

विषय – मौजा–पहाड़पुर, थाना–गावां, थाना नं0–164, जिला–गिरिडीह पी0एफ0 में पहाड़पुर स्टोन डिपोजिट हेतु कुल 4.856 हे0 वन भूमि अपयोजन का प्रस्ताव के संबंध में।

प्रसंग – प्रधान मुख्य वन संरक्षक–सह–कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, राँची का ज्ञापांक–207 दिनांक–06.03.2025

महाशय,

उपर्युक्त विषय एवं प्रसंग के संबंध में सूचित करना है कि विषयक परियोजना हेतु इस कार्यालय द्वारा समर्पित निराकरण प्रतिवेदन के आलोक में राज्य सरकार द्वारा पृच्छित बिन्दु सं0–1 जिला खनन पदाधिकारी, गिरिडीह के पत्रांक–565 दिनांक–19.05.2023 की प्रति एवं बिन्दु सं0–2 प्रयोक्ता अभिकरण द्वारा समर्पित माईनिंग प्लान के अनुमोदन संबंधी सक्षम स्तर से पारित आदेश की प्रति क्रमशः अनु0–1 एवं 2 पर इस पत्र के साथ संलग्न समर्पित है।

अनु0–यथोक्त।

विश्वासभाजन,

वन प्रमण्डल पदाधिकारी,
गिरिडीह पूर्वी वन प्रमण्डल।

28/03/25

467
29/03/25

जिला खनन कार्यालय,गिरिडीह।

ई–मेल :– dmo-giridih@jharkhandmail.gov.in

पत्रांक 565 /एम0 दिनांक 15-05-2023

प्रेषक,

जिला खनन पदाधिकारी
गिरिडीह।

सेवा में,

वन प्रमंडल पदाधिकारी,
गिरिडीह पूर्वी वन प्रमंडल।

विषय :– पहाडपुर स्टोन माइन्स एण्ड क्रशर लि0 के पक्ष में 4.856 हे0 वन भूमि अपयोजन हेतु समर्पित प्रस्ताव के संबंध में।

प्रसंग :– इस कार्यालय पत्रांक 888/एम0 दिनांक 09.11.20, 563/एम0 दिनांक 22.06.22, 1166/एम0 दिनांक 13.12.22।

महाशय,

उपर्युक्त विषयक एवं प्रासंगिक पत्र के संदर्भ में पहाडपुर स्टोन माइन्स एण्ड क्रशर लि0 के पक्ष में 4.856 हे0 वन भूमि अपयोजन के क्रम में संबंधित वांछित सूचना निम्नवत है:–

1. DSR में प्रतिवेदित 138 खनन पट्टों में वर्त्तमान में 45 खनन पट्टा कार्यरत है जिसके Current Availablity of mineable Stone deposits एवं अन्य विवरणी सलग्न है।

2. वर्त्तमान में समाप्त हुए कुल 93 खनन पट्टों के लीज अवधि समाप्त होने के पश्चात खनन कार्य बंद है।

पुनः अद्यतन सूचना इस पत्र के द्वारा उपलब्ध करायी जा रही है।

(अनुलग्नक : यथोक्त।)

वन प्रमण्डल पदाधिकारी
पत्रांक 1763
दिनांक 22/5/23
गिरिडीह पूर्वी वन प्रमण्डल

विश्वासभाजन

15/05/23

जिला खनन पदाधिकारी
गिरिडीह।

जिला खनन कार्यालय, गिरिडीह

Sl#	Lease Name and Addres	Mouza	Block	Plot No.	Area (Acre)	Lease Validity	Available Mineral reserves As per Mining Plan (In MT)
1	श्रीमती संगीता अग्रवाल पति श्री अमित कुमार अग्रवाल, मो0 आई0सी0आर0 रोड, पोस्ट एवं थाना गिरिडीह, गिरिडीह।	द्वारपहरी ,	गाण्डेय	490 / अंश	2.00	30.05.2013 to 10 Year	619431
2	बेलाल अहमद, पिता मो0 सिराज अहमद, ग्राम बाराजोरी, पोस्ट खिजरसोता थाना ओ0पी0परसन धनवार जिला गिरिडीह एवं पार्ट0 मोहम्मद मुमताज आलम, पिता मो0 शेरू साकिन भण्डारीडीह, गिरिडीह।	धनवार,	बाराजोरी,	309 / अंष, 312 / अंष, 313 / अंष, 321 / अंष एवं 322 / अंष	1.31	01.06.2013 to 10 Year	82045
3	श्री उदय शंकर मेहता, पिता श्री राम कृष्ण मेहता, ग्राम तेतरियाडीह, पोस्ट डोमचांच जिला–कोडरमा।	दलोरायडीह	देवरी	251 अंश	1.65	29.10.2015 to 10 Year	158640
4	श्री संजय बगेरिया , पिता श्री मोहनलाल बगेरिया,पावर हाउस राडे, गिरिडीह।	गोराडीह	गाण्डेय	43 अंश	1.50	13.04.2017 to 10 Year	324422
5	श्री विजय कुमार राय, पिता श्री जर्नादन राय, ग्राम महतोटांड (टांड बिघा) पोस्ट लताकी, थाना जमुआ, जिला गिरिडीह।	लताकी	जमुआ	5830 / अंष	1.90	20.11.2017 to 10 Year	91087
6	श्री सज्जन कुमार पचीसिया, पिता श्री गौरी शंकर पचीसिया, वार्ड नं0 9 पोस्ट झुमरी तिलैया, थाना एवं जिला कोडरमा ।	बेलवाना	तिसरी	75 अंष	8.72	05.01.2016 to 10 Year	2113101
7	श्री राधेश्याम पचीसिया, पिता श्री गौरी शंकर पचीसिया, वार्ड नं0 9 पोस्ट झुमरी तिलैया, थाना एवं जिला कोडरमा।	खोरो	तिसरी	1 एवं 5	10.67	15.01.2016 to 10 Year	2260656
8	श्री छोटु मोदी, पिता स्व0 रूपन मोदी, ग्राम एवं पोस्ट नवलशाही, थाना मरकच्चो, जिला कोडरमा ।	धोथो	देवरी	206 / अंश	2.50	29.01.2016 to 10 Year	20788
9	श्री महादेव साहू, पिता श्री दुःखी साहू, ग्राम हिरोडीह, पोस्ट किसगो, थाना हिरोडीह, जिला गिरिडीह।	दालोरायडीह	देवरी	251 / अंश 253 / अंश 282 / अंश एवं 494,	1.69	07.12.2015 to 10 Year	201532
10	मेसर्स जगदम्बा स्टोन चिप्स पार्ट0 श्री राजेश कुमार, पिता श्री कोशलेश राम, पार्ट0 श्रीमति ज्ञानती वर्मा, पति श्री राजेश प्रसाद वर्मा, ग्राम एवं पोस्ट बनियाडीह, थाना एवं जिला गिरिडीह।	कोदैया	गिरिडीह	142 से 156, 25, 203,	2.50	05.03.2015 to 10 Year	155597.72
11	श्री सिद्धार्थ झांझरी, पिता श्री सुरेश कुमार झांझरी, झांझरी निवास, पोस्ट झुमरी, तिलैया, जिला–कोडरमा।	केंदुआ कोला	देवरी	155 / अंश	2.00	27.07.2015 to 10 Year	161423
12	श्री मुन्ना कुमार सिंह, पिता स्व0 पावर्ती नारायण सिंह,ग्राम कुसमई, पोस्ट नवलशाही, थाना मरकच्चो, जिला कोडरमा।	करहाडीह, चांदडीह, खरगडीहा	जमआु ।	519 / अंष33 0 / अंष1981 अंष एवं 1982 अंष	1.55	24.06.2015 to 10 Year	18864

	श्री भूपाल सिंह, पिता स्व0 विरंची सिंह ग्राम गरडीह, पोस्ट एवं थाना धनवार जिला गिरिडीह, पार्ट0 श्री आजाद सिंह पिता श्री इन मुरारी सिंह, ग्राम मंझलाडीह, पोस्ट एवं थाना धनवार जिला गिरिडीह	पतारडीह	जमुआ	28 एवं 29	5.26	22.09.2015 to 10 Year	262625
14	मेसर्स माँ दुर्गा स्टोन माइन्स पार्ट0 श्री अजय कुमार पिता श्री विनोद मेहता, पार्ट0 श्री संजय कुमार मेहता, पिता श्री युगल किशोर मेहता साकिन नावाडीह, पो0 बेहराडीह, थाना डोमचांच, जिला कोडरमा एवं पार्ट0 श्री अजीत कुमार महे ता पिता श्री बालचन्द महेता, ग्राम महेशपुर, पो0 डोमचांच,जिला कोडरमा।	बैरिया	देवरी	2694, 2697, 2696 एवं 2733,	2.50	12.12.2017 to 10 Year	540174
15	श्री नीरज कुमार साहा, पिता स्व0 सुरेन्द्र साहा, हुट्टी बाजार, गिरिडीह जिला गिरिडीह।	मण्डरडीह	बेंगाबाद	1226/अंष	0.90	24.05.2013 to 10 Year	83052.96
16	मेसर्स राज इंजीनियरिंग स्टोन कम्पनी, प्रो0 श्री राजेश कुमार, पिता श्री सूर्यदवे प्रसाद, साकिन दादपुर, पोस्ट फतेहपुर, थाना अकबरपुर, जिला नवादा (बिहार) ।	कुलगो डुमरियाटांड	डुमरी	3034, 3035 एवं 3038	2.00	13.08.2014 to 10 Year	485299.92
17	मेसर्स गणेश मिनरल्स एण्ड क्रशर, पार्ट0 श्री गणेश यादव, पिता स्व0 शोहर यादव, पार्ट0 श्री रंजीत कुमार यादव, पिता श्री गणेश यादव, पार्ट0 श्री संतोष कुमार श्री गणेश यादव साकिन आनंद नगर, पोस्ट आई0 एस0 एम0 थाना सरायढेला, जिला धनबाद।	कालीचट्टान,	बगोदर	प्लौट नं0 10	4.60	06.01.2015 to 10 Year	441551
18	मेसर्स शिव ज्योति स्टोन मिनरल्स, पार्ट0 श्री सुदामा प्रसाद यादव, पिता श्री बुद्धनाथ यादव, ग्राम पारोडीह, पोस्ट हेमरोडीह, थाना धनवार जिला गिरिडीह, पार्ट0 श्री राधेश्याम स्वर्णकार, पिता स्व0 अल्हो स्वर्णकार, ग्राम विगहा, पोस्ट फुलवरिया, थाना मरकच्चो, कोडरमा एवं पार्ट0 3 श्री झगरू यादव, पिता स्व0 हिरामन यादव, ग्राम पुरनाडीह, पोस्ट फुलवरिया, थाना मरकच्चो, कोडरमा ।	एकतरवा	धनवार	प्लौट नं0 54/अंश	2.00	15.01.2015 to 10 Year	661745
19	श्री ललन कुमार मेहता, पिता श्री कार्तिक नारायण मेहता, ग्र म जेरूआडीह, पो0 बेहराडीह, थाना एवं जिला कोडरमा, पार्ट0 2 श्री भेखलाल मेहता, पिता श्री बोधाराम मेहता, ग्राम एवं पोस्ट फलवरिया थाना मरकच्चो, कोडरमा।	अलगदेषी	धनवार	1045/अंष10 48/अंष 1047/अंष 454/अंष, 1054/अंष 1055/अंष 1056/अंष	0.88	27.01.2015 to 10 Year	633320

	मो0 सराज, पिता मो0 सद्दीक, पार्ट02 मो0 सागीर, पिता मो0 पीर मोहम्मद, पार्ट0 3 इरसाद रब्बानी, पिता मो0 इजराइल, पार्ट0 4 मो0 हकीम, पिता कबीर मियाँ, पार्ट0 5 हमीद मियाँ, पिता महदुन्नी मियाँ, पार्ट0 6 बसीर मियाँ, पिता स्व0 सुलतान मियाँ ग्राम बैजुडीह, पोस्ट कुबरी, थाना धनवार।	बैजुडीह	धनवार	प्लौट नं0 297,300,301 ,302,304,30 5,184,183 एवं 299	2.50	20.02.2015 to 10 Year	56066
21	श्री रामेश्वर यादव, पिता श्री ठकुरी महतो, साकिन कुसमई पोस्ट नवलषाही, थाना मरकच्चो, जिला कोडरमा, पार्ट0 2 श्री केदार प्रसाद सिंह, पिता जागो सिंह, साकिन माधोकला पोस्ट गलवती, गिरिडीह।	मधोकला एवं पत्थलडीहा	धनवार,	प्लौट नं0 53, 54, 55 ,56 एवं 03	2.53	20.02.2015 to 10 Year	120183
22	मोहम्द इलियास, पिता अहमद अली, ग्राम नीमाडीह, पोस्ट अरखांगो थाना धनवार, पार्ट0 मोहम्द सराज, पिता सदीक मियां,साकिन बैजूडीह, करगालीखुर्द, पोस्ट कुबरी, थाना धनवार, गिरिडीह।	लखनपुर	बेंगाबाद	प्लौट नं0 4 एवं 5/अंष	1.81	05.02.2015 to 10 Year	64232
23	मेसर्स माँ तारा स्टोन वर्क्स, पार्ट0 श्री संजय कुमार, पिता श्री दशरथ प्रसाद गुप्ता, ग्राम एवं पोस्ट नावागढचटी, थाना धनवार जिला गिरिडीह, पार्ट0 2 श्री देवनारायण मेहता, पिता श्री जगदीष महे ता, ग्राम एवं पोस्ट मसनोडीह, थाना डोमचांच जिला कोडरमा एवं पार्ट0 श्री राजेश कुमार मेहता, पिता श्याम सुन्दर मेहता, ग्राम+पोस्ट बेहराडीह, थाना एवं जिला कोडरमा ।	एकतरवा एवं पारोडीह	धनवार	54/66 एवं 276/अंश एवं 282/अंश	0.88	27.06.2015 to 10 Year	83150
24	मेसर्स श्रीराम स्टोन चिप्स, पार्ट0 श्री मनोज कुमार मेहता, पिता श्री धनश्याम मेहता, ग्राम नावाडीह, पोस्ट डोमचांच जिला कोडरमा।	एकतरवा	धनवार	54/अंश	0.80	24.06.2015 to 10 Year	346894
25	मेसर्स सूर्य शक्ति माइन्स एण्ड मेटल प्रा0 लि0,शान्तिनगर, हाई स्कूल रोड, ग्राम एवं पोस्ट पचम्बा, थाना गिरिडीह एवं जिला गिरिडीह निदेषक श्री डेगलाल महतो, पिता स्व0 दुर्गा महतो, सकिन सिमराडीह,(हनुमान मंदिर के पास) पो0 डुमरी जिला गिरिडीह।	धुजाडीह	डुमरी	31	3.00	03.07.2015 to 10 Year	17301.44

26.	मेसर्स श्याम जानकी स्टोन वर्क्स पार्ट0 श्री अरुण प्रकाष वर्णवाल, पिता स्व0 छोटेलाल [illegible],ग्र म +पोस्ट डोमचांच, थाना [illegible]ांच जिला कोडरमा, पार्ट0 2 श्री सुरेन्द्र सिंह, पिता स्व0 विरेन्द्र सिंह, साकिन न्यू बरगण्डा, गिरिडीह।	तेलोडीह	गिरिडीह	78/अंष, 84, 85, 86, 90/अंष एवं अन्य	11.90	04.08.2015 to 10 Year	476766
27	श्री शशि शंकर सिंह,पिता शिव नन्दन प्रा0 सिंह,ग्राम+पोस्ट मसनोडीह, थाना एवं जिला कोडरमा, पार्ट. 2 श्री मनोज कुमार मेहता, पिता श्री झरी मेहता,ग्राम बीघा, पो0 फुलवरिया, थाना मरकच्चो, जिला कोडरमा,।	करगलीखुर्द एवं पत्थलडीहा,	धनवार	1335/1581, 2/अंष, 14/अंष, 4, 12, 17/अंष 15 एवं 1/222	2.36	10.09.2015 to 10 Year	1194321.8
28	मेसर्स जय माँ गौरी स्टोन वर्क्स, पार्ट01 श्री विष्णुदेव सिंह, पिता स्व0 जगदीष सिंह, ग्राम चकमजो, पोस्ट खरगडीहा, थाना जमुआ, जिला गिरिडीह, पार्ट02 श्री ब्रिजनन्दन तिवारी, पिता श्री भागवत तिवारी,ग्राम गाण्डो, थाना जमुआ, जिला गिरिडीह एवं पार्ट03 श्री संजय कुमार साव, पिता श्री श्यामलाल साव, ग्राम पुरनाडीह, पोस्ट फुलवरिया, थाना मरकच्चो, जिला कोडरमा ।	लताकी	जमुआ	5830/ अंष,	2.90	17.10.2015 to 10 Year	235109
29	श्री सुधीर प्रसाद सिंह, पिता श्री सहदवे नारायण सिंह, ग्राम गादीकला, पोस्ट किसगो, थाना देवरी, जिला गिरिडीह एवं पार्ट0 श्री शंभु सिंह, पिता स्व0 नुनु सिंह, ग्राम खरखार पोस्ट नवलशाही, थाना मरकच्चो, जिला कोडरमा।	गादीकला	देवरी	1184/ अंष, 1187/ अंष, एवं अन्य	1.10	27.10.2015 to 10 Year	213211
30	श्री महेश कुमार वर्मा पिता श्री महेन्द्र प्रसाद वर्मा, ग्राम एवं पो0 डोमचांच थाना डोमचांच, जिला कोडरमा, पार्ट 2 श्री दिनेश शर्मा, पिता श्री जगदीश मिस्त्री, ग्राम पचगाँवा, पोस्ट मसनोडीह, थाना डोमचांच, जिला कोडरमा, एवं पार्ट 3 श्री तुलसी कुमार साव, पिता श्री यमुना प्रसाद साव, डोमचांच कोडरमा ।	माधोपुर एवं पारोडीह	धनवार	3/1129 अंश एवं 284/1 अंश,	1.30	29.01.2016 to 10 Year	104079
31	श्री कैलाश प्रसाद मडंल, पिता जगन्नाथ मंडल, पोस्ट द्वारपहरी जिला गिरिडीह एवं पार्ट0 श्री राकेश चन्द्र पिता श्री विजय कृ ण सहाय, शस्त्रीनगर, पोस्ट एवं थाना गिरिडीह जिला गिरिडीह।	मौजा चचघरा	जमुआ	547/अंष	1.40	09.12.2015 to 10 Year	11456

	मा शकुन्तला आर0 मिनल्स प्रा0 लि0 निबंधित कार्यालय द्वारा महेन्द्र प्रसाद वर्णवाल, मकान नं0 119 उतरैली सिनेमा रोड़ राजधनवार, 825412, गिरिडीह।	अमझर,	देवरी	360/अंश,	4.90	09.12.2015 to 10 Year	380505
33	मेसर्स श्री साई स्टोन प्रो0 श्री अनिल कुमार यादव पिता स्व0 श्याम सुन्दर यादव, ग्राम सिमरिया ,पो0 जामू, थाना मरकच्चो जिला कोडरमा ।	पारहोडीह	धनवार	284/अंष	1.12	15.09.2016 to 10 Year	177379
34	श्री सचीन कुमार सिंह, पिता श्री राम सिंह, ग्राम + पोस्ट मसनोडीह जिला कोडरमा ।	शहरपुरा	धनवार	279/अंष	1.83	25.07.2017 to 10 Year	163563
35	मेसर्स जय माँ दुर्गा स्टोन वर्क्स पार्ट0 श्री उमा कान्त राणा, पिता स्व0 राम चन्द्र राणा, पार्ट02 ईश्वर साव, पिता श्री राम किशुन साव, पार्ट03 रामकिशोर यादव, पिता श्री जोबराज महतो, पार्ट04 श्री जय प्रकाश दास, पिता श्री खुबी दास एवं पार्ट0 अब्दुल क्युम खान, पिता स्व0 अब्दलु बारीक खान, परु नानगर, जिला कोडरमा ।	केशवारी	बगोदर	777/अंष, 778/अंष, 780/अंष, 843, 856/अंष, 779, 832/अंष 844, 845, 857, 858/अंष,	4.18	25.07.2017 to 10 Year	540174
36	मेसर्स शुभम इंजिनयरिंग स्टोन कं0,पार्ट0 1. श्री राजेष कुमार, पिता श्री सूर्यदेव प्रसाद, ग्राम दादपुर, पो0 फतेहपुर, थाना अकबरपुर, जिला नवादा, (बिहार) ,पार्ट0 2. श्री दुर्योधन महतो, पिता स्व0 कैलाश महतो, ग्र म जामतारा, डुमरी, गिरिडीह,पार्ट0 3. मुमताज आलम, पिता मो0 समसुदीन,ग्राम जामतारा, पो0 डुमरी, गिरिडीह।	डुमरियाटांड, कुलगो,	डुमरी	3036, 3039, 3049/अंष, 3052, 3037, 3051, 3040, 3054,	9.18	25.07.2017 to 10 Year	1878130
37	श्री मनीश जालान, पिता श्रीराम रतन जालान, साकिन गिरिडीह, टोली दरजी मुहल्ला, पोस्ट+थाना गिरिडीह।	महादेवडीह	गिरिडीह	355/अंष	3.00	25.07.2017 to 10 Year	225015
38	मेसर्स गणपति मिनरल्स, प्रो0 श्रीमति श्वेता देवी, पति श्री राजकुमार ओझा, इसरी बाजार बस स्टैण्ड के पास थाना निमियाघाट, जिला गिरिडीह	चहाल,	देवरी	157/अंष,	12.00	12.09.2017 to 10 Year	3334178
39	मेसर्स बाबा स्टोन, पार्ट0 श्री राकेश कुमार सिंह, पिता श्री अरूण सिंह, ग्राम एवं पोस्ट रांघट्टा, थाना कटरिया, जिला बांका बिहार, वर्तमान पता ग्राम खैराबाद, पो0 मंदरामो थाना सरिया, जिला गिरिडीह, पार्ट02 बासुदवे राणा, पिता स्व0 अकलू साकिन पोखरियाडीह, पोस्ट मदरामो, थाना सरिया, जिला गिरिडीह एवं पार्ट0 3 श्री राजेन्द्र कुमार, पिता श्री बढन राणा, ग्राम पोखरिया, पोस्ट मदरामो थाना सरिया, गिरिडीह	मंदरामो	बगोदर	2222/अंष, रकबा 3.46 एकड	3.46	17.10.2017 to 10 Year	726147

	मो0 अफराज आलम, पिता मो0 निजामुद्दीन, साकिम बुलाकी रोड, गिरिडीह	घाटकुल	गाण्डेय	151/अंश	3.35	06.11.2013 to 10 Year	522143
2	निल कुमार साव, पिता श्री अर्जुन साव, ग्राम पोस्ट एवं थाना नवलषाही जिला कोडरमा एवं श्री विषाल कुमार, पिता श्री गजेन्द्र प्रसाद गुप्ता, ग्राम महथाडीह, थाना डोमचांच, कोडरमा।	गोविन्दपुर	जमुआ	437 अंश	0.8	06.03.2015 to 10 Year	104513
3	मेसर्स सूर्य शक्ति माइन्स एण्ड मेटल प्रा0 लि0, निदेशक श्री डेगलाल महतो, पिता श्री दुर्गा महतो, ग्राम+पोस्ट पचम्बा, जिला गिरिडीह	घुजाडीह	डुमरी	30	2.5	14.09.2017 to 10 Year	421002
4	श्री रानू बगेरिया, पिता श्री गोपी कृष्ण बगेरिया, साकिन एवं पोस्ट पचम्बा, थाना एवं जिला गिरिडीह	घुजाडीह	डुमरी	21 अंश	1.2	14.09.2017 to 10 Year	295473
45	मेसर्स वारिश स्टोन, पार्ट0 मो0आजाद हुसैन, पता मो0 सिराज, ग्राम+पोस्ट अरखांगो थाना धनवार जिला गिरिडीह, पार्ट0 2. हैदर अली, पिता मो0 सिराजउद्दीन ग्राम डुमरडीहा, पोस्ट अरखांगो, थाना धनवार जिला गिरिडीह, पार्ट03. मो0 शाहीद अली, पिता मुबारक अली, ग्राम + पोस्ट कुबरी, थाना धनवार, जिला गिरिडीह,	खैरीडीह	धनवार	446,445,444 443, 442, 426, 427, 428, 423, 421,416,422, 425,424, 429, 430 एवं 440,	4.5	20.11.2017 to 10 Year	450000

MINING PLAN

&

PROGRESSIVE MINE CLOSURE PLAN

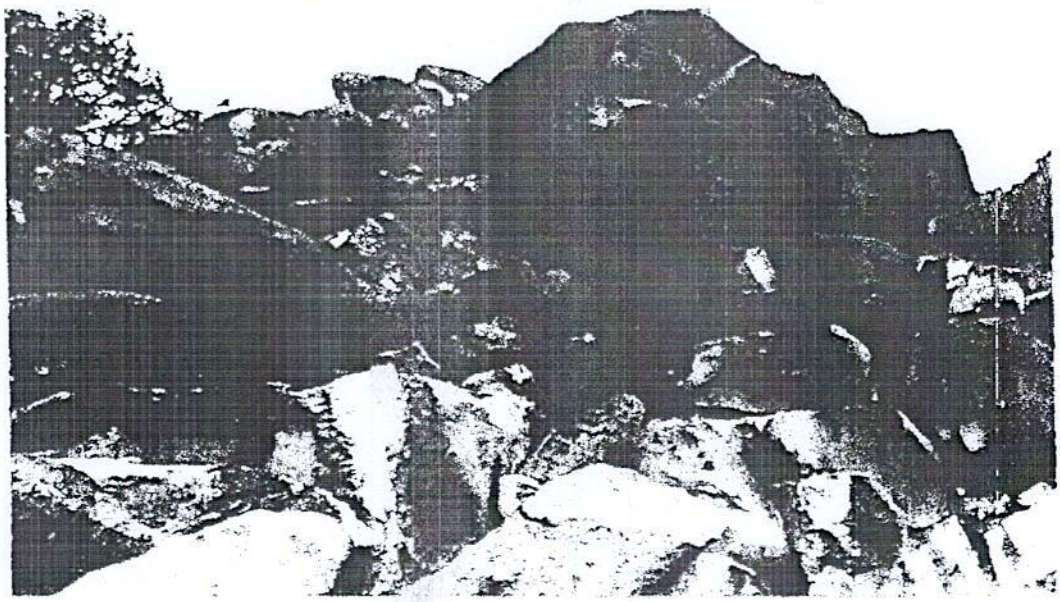
PAHARPUR STONE DEPOSIT

AREA: 12.00ACRES

(NON FOREST AREA)

VILLAGE: PAHARPUR, THANA: GAWAN

DISTRICT: GIRIDIH (JHARKHAND)



MINERAL: STONE

APPLICANT:

SMT. REKHA DEVI
P.O.:PURNI BAZAR
THANA: NAWADA
DISTRICT: NAWADA
STATE: BIHAR

Mining Plan
Approved
(BIBHUTI KUMAR)
Asst.Mining Officer
Giridih

PREPARED BY:

Dr. ANAL KUMAR SINHA
CHANCHALA SMRITI, PURAN VIHAR, ARGORA BYPASS ROAD, Ranchi – 834002 , Jharkhand
Email ID sinha.anal@rediffmail.com
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RQP Regn. No. RQP/RNC/162/2013/A
valid up to 09.07.2023

PAHARPUR STONE DEPOSIT, APPLIED AREA 12.00 ACRES
APPLICANT: M/S JAI BABA PATALPURI STONE MINES & CRUSHER (PVT.) LIMITED
PROP. SMT REKHA DEVI

CERTIFICATE

This is to certify that all the provisions of Mines Act ,Rules and Regulations made there under have been observed in the Mining Plan in respect of Paharpur over an area of 12.00 acres in Village: Paharpur, Anchal : Gawan ,Thana: Gawan, Dist.: Giridih, Jharkhand in Khata No.:1,2 Plot no.: 16 , 18belonging to M S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited. This is also to undertake that the Applicant shall approach the DGMS wherever the specific permission is required. Further, all Standards prescribed by DGMS in respect to Miner's Health will be strictly implemented.

JAI BABA PATALPURI STONE
MINES & CRUSHER PVT. LTD.
Rekha Devi

Director
(Smt. Rekha Devi)

Proprietor

M S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited

Applicant

Place :Giridih Date:

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(BIBHUTI KUMAR)
Asst. Mining Officer
Giridih

Dr. Anal K Sinha
RQP/RNC/162/2013/A

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect ofPaharpurover an area of 12.00 acres in Village: Paharpur, Anchal : Gawan ,Thana: Gawan, Dist.: Giridih, Jharkhand in Khata No.:1,2 Plot no.: 16 , 18 belonging to M/S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited has been prepared by Dr. Anal K. Sinha , RQP, Regn. No. RQP/RNC/162/2013/A .

The Department of Mines and Geology, Government of Jharkhand (the authorized department) is requested to make all further correspondence regarding modification etc. in Mining Plan with the above mentioned recognized person at the following address:

Dr. Anal Kumar Sinha , RQP
" ChanchlaSmriti "
PuranVihar ,Argora Bye Pass Road ,
Ranchi -834002
Jharkhand
Email ID : sinha.anal@rediffmail.com

We hereby undertake that all the modifications so made in the Mining Plan by the Recognized Person be deemed to have been made with our knowledge and consent and shall be acceptable to us and binding on us in all respect.

Rekha Devi

Director

(Smt. Rekha Devi)

Proprietor

M/S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited

Applicant

Place :Giridih

Date:

Anal

Dr. Anal K Sinha
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Asst.Mining Officer
Giridih

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Asst.Mining Officer
Giridih

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Asst. Mining Officer
Giridih

CERTIFICATE

This is to certify that the provisions of Mines Act, Rules and Regulations made there under have been observed in this Mining Plan and wherever the specific permission are required ,the Applicant Applicant shall approach the concerned authorities of D.G.M.S. for granting permission.

This is further to certify that the information furnished in this Mining Plan is true and correct to the best of my knowledge. The Applicant Applicant has been apprised of all the aspects of this Mining Plan.

Anal Kumar Sinha

(DR. ANAL K. SINHA)
Regn.no.RQP RNC 162 2013 A
Valid up to 09.07.2023

Place : Ranchi
Dated:

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Asst.Mining Officer
Giridih

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TEMPLATES FOR MINE PLAN FOR MINOR MINERAL

MINING PLAN FOR WINING OF STONEFROM VILLAGE: PAHARPUR, UNDER THANA: GAWAN,ANCHAL:GAWAN,DISTRICT: GIRIDIH, JHARKHAND

1. **Name & Address of the Applicant :**

   Name: M/S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited, Prop.: Smt.Rekha Devi

   Registered Office:C O Sri Ravi Shankar Prasad. Purni Bazar. Dist. Nawada ,Bihar-805110

   Site Office:Village: Paharpur, Thana:Gawan, Anchal :Gawan. Dist.:Giridih. Jharkhand

2. **Particulars of the Area (Acreage. Boundary, Description and land schedule):**

   The Thambh Stone Mining Project is situated at Village: Paharpur. Thana:Gawan, Anchal :Gawan. Dist.:Giridih, Jharkhand.It lies at a distance of total8 km north fromGawan including 3km Kuchha road connecting Gawan- GiridihRCD road.

3. **Status of the Applicant: (Private individual / Private company/ public sector undertaking / joint sector undertaking /others).:**

   Private LimitedCompany of Prop.: Smt. Rekha Devi

4. **Period of the concession :** Yet to be granted
5. **Mineral intended to be won:** Stone
6. **Name, Address and Registration No. of RQP preparing the mining plan with validity of Recognition:**

DR. ANAL K. SINHA
M.Sc., M.Tech., Ph. D., LLB
"CHANCHLA SMRITI"
PURAN VIHAR, ARGORA BYE PASS ROAD.
RANCHI -834002 . JHARKHAND
Contact no. 7762923277/ 9608302140
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REG. NO. RQP/RNC/162/2013/A
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7. Order No. & date of Competent Authority Granting the concession: Yet to be granted.
8. If, forest area, whether forest clearance: obtained: (Attached copy of forest clearance): Protected Forest area. Necessary Clearances shall be obtained in due course.
9. Reserves: (Estimation to be based on the exploration, If any, carried out in the area or on the local parameters).
   Total Mineable Reserve: 2104190.02Tonnes.
   Details have been given in Chapter V

Mining :

(a) Whether manual or semi mechanized or mechanized: Semi Mechanised

(b) Number, type and capacity of machines to be used.:

S.no.	Type of Machine	No.	Dia of hole in mm	Size/ Capacity	Make	Motive Power	HP
01.	DTH	2	100	25m hour	Atlas Capco CCM 785	Diesel	440
02.	Excavators	2		0.9 cu m	Komatsu PC 200	Diesel	124
03.	Compressor	2		300 cfm	Atlas Capco	Diesel Operated	1
04.	Jack Hammer	2			Atlas Capco		
05.	Tippers	4		15 MT	Tata	Diesel	98.5

(c) Monthly quantity of explosives to be consumed: To be given on Contract.

(d) Benching pattern (Height x Width): 3m X 5m

(e) Face lay out : (Development Plan attached)

(f) Quarry floor level (RL) at the end of the year or Plan Period of the concession:189.20m

(g) Quantity of mineral to be won (Annual Level of production):210105.31 tonnes

(h) Quantity of overburden to be removed: (show location of such disposal in development plan): No Over Burden will be generated. Total Intercalated Waste will be 20479 Cum which shall be consumed in Road dressing and local use.

(i) Whether heavy blasting to be adopted, If Yes, location of nearest habitation (to be shown in the surface plan): No.

(j) Safety precautions to be adopted: All Safety Measures will be adopted as per Guide Lines.

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Giridih

(k) Brief description on method of procurement and storage of explosives: To be given on Contract.

11 Waste Disposal:

(a) Location (shown in the development plan): To be used in road making.
(b) Area covered: 0.00 in Conceptual Plan.
(c) Environmental safeguards for such disposal: Necessary Measures shall be taken care of.

12 Mine drainage :

(Give details of total make up water during dry and rainy season and its method of handling):
Details furnished in Chapter VII

13 Mineral Processing :

Details of processing including sizing, sorting, generation of rejects fines etc. given in Chapter IX.Plantation:

(a) No of trees to be uprooted due to Mining operation: 3909 Trees will be planted in the Dead Benches and the Safety Zone area during the life of the Mine.
(b) Programme of plantation.
--- Details furnished in Chapter XII and XIII.

14 Manpower:

Supervisory :(inclusive of statutory personnel's) : 02
Non Supervisory :
Office Staff: 01
Skilled: 12
Semi-Skilled:06
Unskilled: 11
TOTAL : 32
Details of Manpower given in Chapter X

16Use of Mineral:

(Specification and monthly quantity to be dispatched be furnished)
(a) For domestic Use: In various infrastructural works.
(b) For export:No Stone will be exported.
Details given in Chapter XI

17 Mine Closure Plan:

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Asst. Mining Officer
Giridih

(a) Describe the process activities to be undertaken for reclamation and rehabilitation in respect of the followings:

(i) Mined outland

(ii) Waste reject dump.

(iii) Top soil stack and its utilization

(b) Financial assurance:

(To be furnished as a bank guarantee to respect of the area to be put to use at the rate of Rs. 25000 - per hectare with a minimum of Rs. Two lakhs.)

Progressive Mine Closure Plan has been described in Chapter XIII.

18 Certificate:

I, Applicant for Mining Lease for Stone over an area of 12.00 acres in Village: Paharpur, Anchal :Gawan ,Thana: Gawan, Dist.: Giridih, Jharkhand in Khata No.: 1,2 & Plot no.: 16 , 18 hereby solemnly affirm that the plans and programme in this mining plan will be scrupulously implanted by me us and I shall be strictly held responsible for any deviation thereof. I also hereby certify that the provision of Mines and Minerals (Development and Regulation Act, 1957 and its Amendments, and the Mines Act, 1952 and Rules and Regulation made under these Act, along with the provisions of Jharkhand Minor Mineral Concession Rules, 2004 (as amended up to date) will be strictly adhered to while implementing this mining plan and wherever specific permission will be required, I shall approach the concerned authorizes of Directorate General of Mines Safety and the State Government as the case may be .

Signature of Concessionaire/Applicant

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Asst.Mining Officer
Giridih

Dr. Anal K Sinha
RQP/RNC/162/2013/A

INTRODUCTION

a) M S Jai Baba patalpuri stone Mines & Crusher (Pvt) Limited, Prop: Smt. Rekha Devihas appliedon 04.01.2016 to Assistant Mining Officer (AMO), Girdihdistrict for Mining Lease for Stone Village: Paharpur, Anchal : Gawan ,Thana: Gawan, Dist.: Giridih, Jharkhand in Khata No.: 1,2 & Plot no.: 16 , 18. Assistant Mining Officer ,Girdih has issued the Letter to the Applicant vide no. 4001 dated 20.12.2016. He has sought the Report from Divisional Forest Officer(East), Giridih and Circle Officer, Gawan on certain statutory points for processing of the Lease to the Applicant vide no. 3865 dated 08.12.2016 and 3866 dated 08.12.2016 respectively. The approved Mining plan and the Environmental Clearance are mandatory to be obtained before Grant of the Lease in line with the Judgment of Hon'ble Supreme Court of India dated 27.02.2012. All correspondences have been enclosed with Mining Plan.

b) M S Jai Baba patalpuri stone Mines & Crusher (Pvt) Limited has its registered office at C/O Sri Ravi Shankar Prasad, Purni Bazar, Dist. Nawada , Bihar- 805110

c) As per the Infrastructural study and market Scenario of the area, the Granitic body popularly known as "Building Stone" are being used in most of the constructional activities in the area which include the road construction, building making, irrigational projects etc.
The Stone of this area are also utilized for ballast stone in railway tracks. The stone are being sold at neighbouring states also. The high quality of the Stone of the area, the stone can be exported also to neighbouring countries under the Government Rules and Regulations.

d) Also in recent years, there has been a huge demand for stone to be used for road construction and road widening projects. Even the weathered part of the deposit is utilized for pitching in river embankment and filling up of pits etc. in State and National Highways.
The applied Mining Applied area for stoneover an area of12.00 acres in Village: Paharpur, Anchal : Gawan ,Thana: Gawan, Dist.: Giridih, Jharkhand in Khata No.:1,2 Plot no.: 16 , 18Thana no.:164 ,Khata No. 1 & 2, Plot no. 16 & 18in favour of M/S Jai Baba Patalpuri Stone Mines & Crusher (Pvt) Limited , Prop. Smt. Rekha Devi.The present Mining Plan has been prepared under the provisions of MMDR Act -1957with all Amendments, MMR-1961, Mines Act 1952, Mines Rules 1955 and Jharkhand Minor Mineral Concession Rules – 2004. All safety measures provided in the Statute has and will be strictly followed while preparing the Plan and during its execution.

e) During the execution of the mining work, the required competent and qualified persons will be appointed who will control, direct and supervise the safe working of the proposed mine.

f) The local authority has been contacted for getting the base line data during the preparation of the Mine Plan.

Dr. Anal K Sinha
RQP/RNC/162/2013/A

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Giridih

g) The local authority has been contacted for getting the base line data during the preparation of the Environmental Management Plan.

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Approved
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Asst.Mining Officer
Giridih

CHAPTER I

GENERAL

1.1 Name and Address of the Applicant

2. Name & Address of the Applicant :

Name: M/S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited, Prop.: Smt. Rekha Devi

Registered Office:C O Sri Ravi Shankar Prasad, Purni Bazar, Dist. Nawada , Bihar-805110

Site Office:Village: Paharpur, Thana:Gawan, Anchal :Gawan, Dist.:Giridih, Jharkhand

Status of Applicant :

The Applicant is a Private Company represented by Prop.: Smt. Rekha Devi

Mineral occurring in the area which the Applicant intends to mine:

Stone

1.2 Details of the RQP preparing the Mine Plan:

DR. ANAL K. SINHA
M.Sc., M.Tech., Ph. D., LLB
"CHANCHLA SMRITI"
PURAN VIHAR, ARGORA BYE PASS ROAD,
RANCHI -834002 , JHARKHAND
Contact no. 7762923277 9608302140
Email ID: sinha.anal@rediffmail.com
REG.NO. RQP/RNC/162/2013 A,VALID UPTO 09.07.2023

1.3 Name of the Prospecting Agency :

The RQP has made Reconnaissance Survey of the area and its surroundings. A few old natural pits,nala cuttings have been studied and the area has been found to be very potential with respect to stone and hence it has been suggested to apply for Mining Lease of Stone. The existing mines in the nearby area have also been studied by RQP.

1.4 Details of the Area :

Khata No.:1& 2
Plot no.:16 & 18

1.5 Applied area :

12.00Acres

1.6 Forest / Non Forest:The Applied area is under Protected Forest Cover. Hence the Forest Clearance shall be obtained in due course.

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Giridih

CHAPTER II

LOCATION & ACCESSIBILITY

2.1LOCATION AND ACCESSIBILITY:

The Thambh Stone Mining Project is situated at Village :Paharpur, Post: Gawan, Dist. Gridih, Jharkhand. It lies at a distance of total 8 km north fromGawan including 3km Kuchha road connecting Gawan- Giridih pitch road.(Ref: Plate no. 1)

2.2 Toposheet no. :

The area lies in Survey of India Toposheet no.72H 14
Latitude : N 24 35'37.27" TO 24 35'50.62"
Longitude: E 85 57'19.09" TO E 85 5 '28.86"

The topographical status of the area depicts the minimum and maximum elevations in the area as less than 187m and more than 209m respectively from the mean sea level (Plate no. 4).

2.3 Availability of Infrastructural Facilities

Water: There is no river located near to the Mine site. TheSakriNadilies at about 1 Km northfrom the area. The drinking water is brought by well and tube wells and The average water level is about 20 m in the wells of the locality.

Power: No power station is located nearby village.440 Vpower line exists at 250 m from the area. The nearby villages are electrified.

Medical: Government Doctors visit Paharpur occasionally. The Primary Health Centre as well as Referrel Hospital is situated at Gawan(8Km)whereasSadar Hospital is located at Giridih town about 80 Km from the Site.A no of good Nursing Home and private Hospitals are available at Giridih town.

Educational Institution: Primary Schoolissituated at Cherwavillage about2 km distance from the area. There is an Inter College situated at Gawanwhereas the Degree Colleges are available atMirzaganj at 50 Km from the site. The Post-Graduation education and higher education are available at Giridih.

Road and Rail: The applied area is connectedwithGawanGiridih SH at 3 km.The nearest Rajdhanbar Station of East Central Railway under Dhanbad Rail Division is located at 32 km from the site.

Bank : The State Bank of In ia and UCO Bank are situated at Gawan.

2.4Location Plan:

The Location Plan has been prepared which shows the area within the State of Jharkhand along with district and state locations. (Plate no.- 1)

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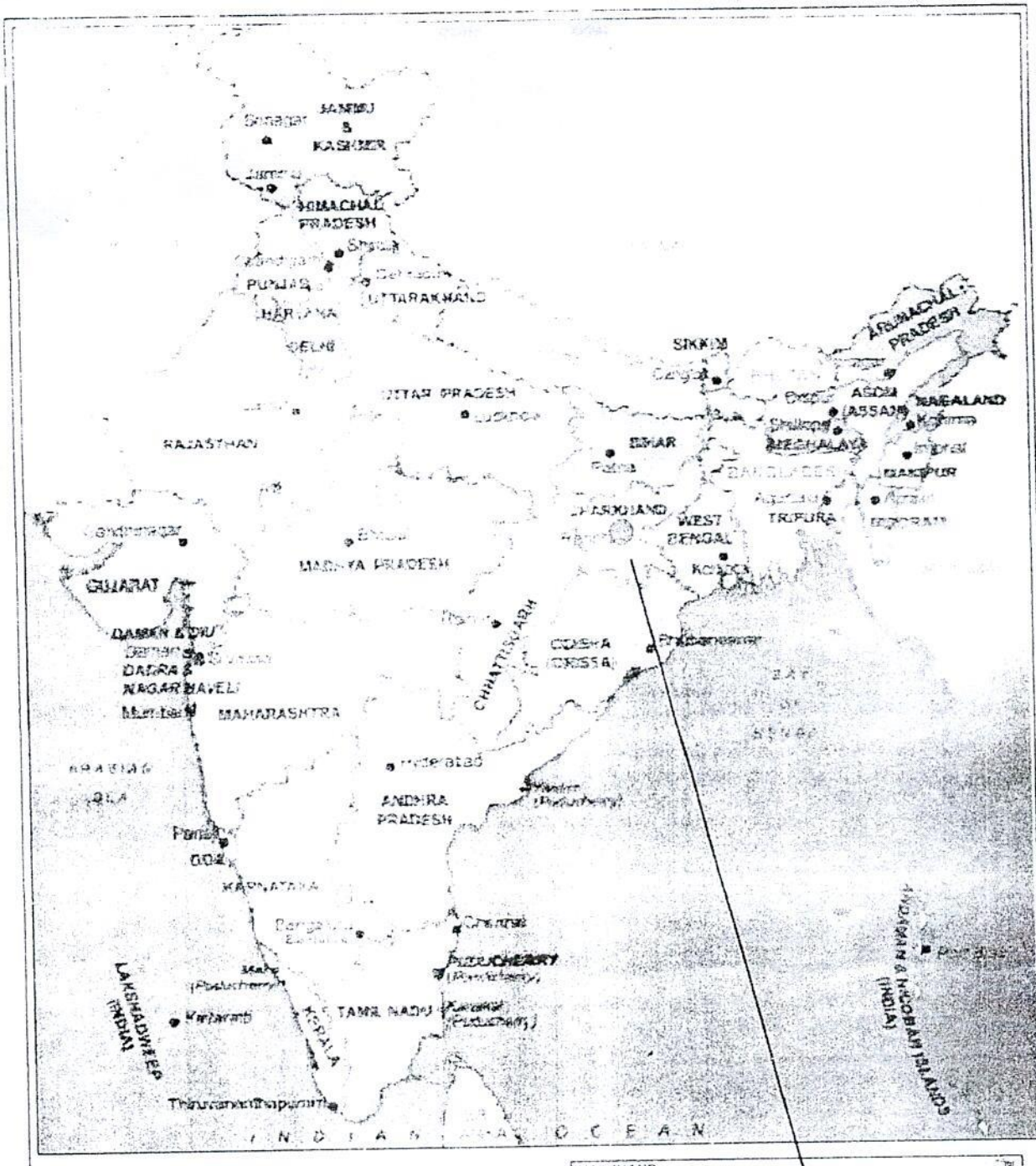
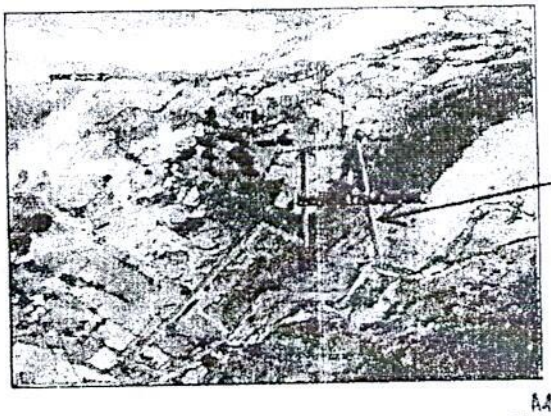
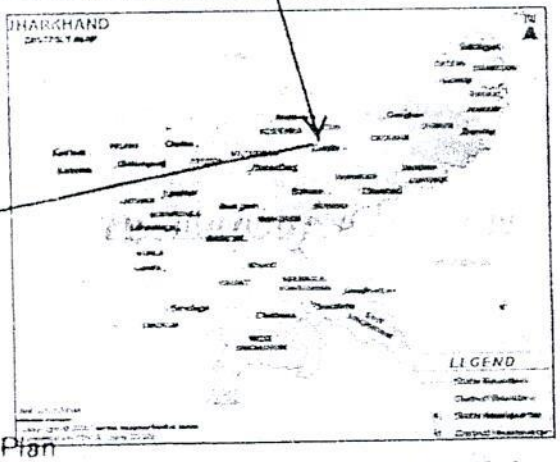
Asst Mining Officer
Giridih







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(RIBHUTI KUMAR)
Asst. Mining Officer
Giridih

PLATE - 1

PAHARPUR STONE DEPOSIT

APPLICANT: M/S JAI BABA PATALPURI STONE MINES AND CRUSHER PVT. LTD., PROPRIETOR- SMT REKHA DEVI, PURANI BAZAR, NAWADA BIHAR, 805110

IN VILLAGE -PAHARPUR, THANA NO. 164, THANA-GAWAN, DIST. - GIRIDIH, JHARKHAND

LOCATION PLAN

CHAPTER III

GEOLOGY

3.1 General

The area forms a part of the Chotanagpur Granite Gneissic (CGC) covering the vast tract of 80000 sq. km and is mainly composed of Archean and Gondwana Super Group. The Singhbhum Shear Zone lies south of the area.

3.2 Previous Works

Prominent workers like Dunn(1929) , Krishnan (1937) , Dunn and Dey (1942) , Sengupta and Sarkar(1964),Mahadevan et.al.(1964, 1967), Banerjee(1975), Ghose et.al. (1984),Majumdar(1988) , Sinha et.al. has studied the Pre Cambrian Terrain of Chotanagpur in detail . Ghose (1992) renamed this as Chotanagpur Gneiss Granulite Complex (CGGC).

3.3 Regional Geology :

The Important rock types exposed in the region consist of a series of meta sediments like Mica-schist, Quartz-schist, Mica-quartz-schist, Hornblende schist, calc-silicate rocks and para-Amphibolite. The group of gneissic rocks consists of Granite-Gnesis, Biotite-Gnesis of CGGC which are younger to Meta sediments in age and are also occurring in association with the above rocks. The Mica schist is inter-bedded with bands of Hornblende Schist, Talc Schist, Granulite and Gneiss, Micaceous Quartzite. The rocks are invariably intruded by Dolerite dykes, Pegmatite veins and sometimes by intrusive rocks of granitic composition. Few deposits of pink Granites are also observed in the area which give very good decorative property upon polishing. Pegmatite Veins with Mica deposits are dominantly

The coarse grained granites show chilling effect indicating contact metamorphism with the adjoining gneissic rocks and show a faint foliation near the contact. On the other hand, the granite & schist are traversed by the dykes, quartz veins and pegmatite.

3.3 Stratigraphy and Correlation:

UPPER CARBONIFERROUS TO UPPER PERMIAN

Alluvium soil.

Lower Gondwana (Barakar Series)

-------- ----------Unconformity ----------

PRE CAMBRIAN

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Dolerite, Pegmatite & Quartz veins.

Intrusive Granite.

Chotanagpur Granite Gneiss:

Porphyroblastic Granite Gneiss.

Granite Gneiss.

Migmatitic Granite Gneiss.

Unclassified Meta Sedimentaries :

Amphibolite, Hornblende Schist

Mica Schist, Quartz Mica Schist

Micaceous Quartz Schist, Quartzite

3.4 Regional Structure:

The rocks of CGC have been subjected to repeated folding, high grade regional metamorphism and profused igneous activities. The present structural set up of the area indicates three generations of structural deformations as evidenced by the presence of various structural features like folds, faults, unconformity, schistosity, foliations, lineations, boudins etc. The area is structurally disturbed with Antiforms and Synforms with a number of cross folds dissecting the rocks. The main structural trends in this belt are controlled by the folding in the meta-sedimentary rocks of the area. In general, the fold axis strikes ESE to WNW but at some places it changes from NNE to SSW. The lineations due to the presence of elongated minerals are commonly found in the granite gneiss and mica schist, with a dip varies from 30° to 40° towards ENE. The plunge of the lineations are compatible with the regional fold axis.

The foliation of the schistose rock strikes about ENE to WSW with a dip varies from 30° to 60° in northerly or southerly direction depending upon the folded nature of the schist. Many numerous slip planes traverse the schistose rocks which are parallel to sub-parallel to the axis of fold causing foliation in the schist.

Some small faults marked in the area by silicification, brecciation. In the area, three to five sets join s are also noted in the intrusive granite. The minor folds like puckers, lineations etc. are also observed in the area which are compatible with the regional structures prevalent in the area.

3.5 GEOLOGY AND STRUCTURE OF THE AREA

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Giridih

ANNEXURE

भारत सरकार/GOVERNMENT OF INDIA

खान मंत्रालय/MINISTRY OF MINES

भारतीय खान ब्यूरो/INDIAN BUREAU OF MINES

CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON

[illegible]

... KUMAR ...

[illegible]

IBM/.../2013

[illegible]

The area under study forms a part of the Chotanagpur Gneissic Complex. The Proterozoic rocks in the area show considerable variation in the composition and mineral assemblages. The quartzitic body in the nearby quarry possesses very good bedded and schistose structures. The strike of the planer structures in quartzite is EW and the dip is 13 towards south (Plate no. 5).

The general succession of the rock types exposed in the area is as follows:

Soil

Quartz veins and Pegmatite veins

Pyroxenite and Amphibelite

Quartzite

---------- ------- Unconformity ----------

Chotanagpur Granite Gneiss Complex

Small folds like puckers and lineations formed due to the presence of micaceous and other platy minerals are widely observed in the area. No major deformation is noted in the area.

3.6 Type of Soil :

The soil cover wherever it is present in the area consists of silty to sandy type which are the products of physical and chemical weathering of the granitic rocks . The clayey soil in general is absent in the area. However, small quantity of clayey soil is reported on the south western part of the Applied area. No organic matter has been reported from these clayey soils. The small bushes and shrubs are prevalent at the top of the hillock. The soil is negligible and can not be quantified.

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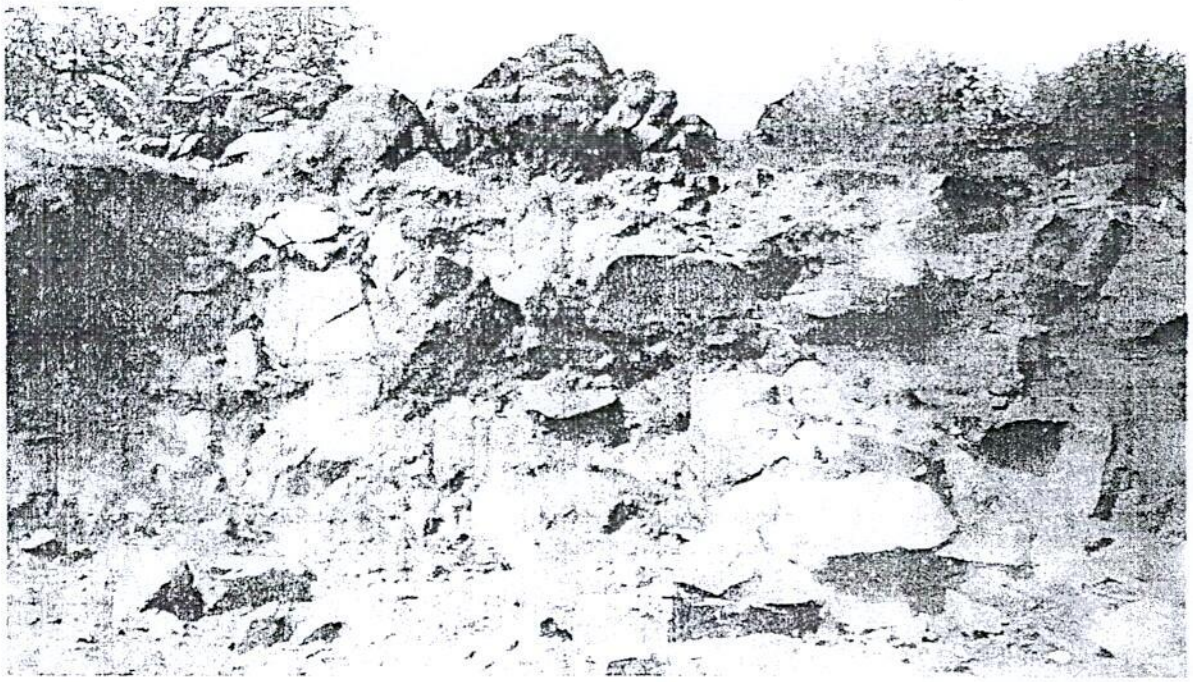
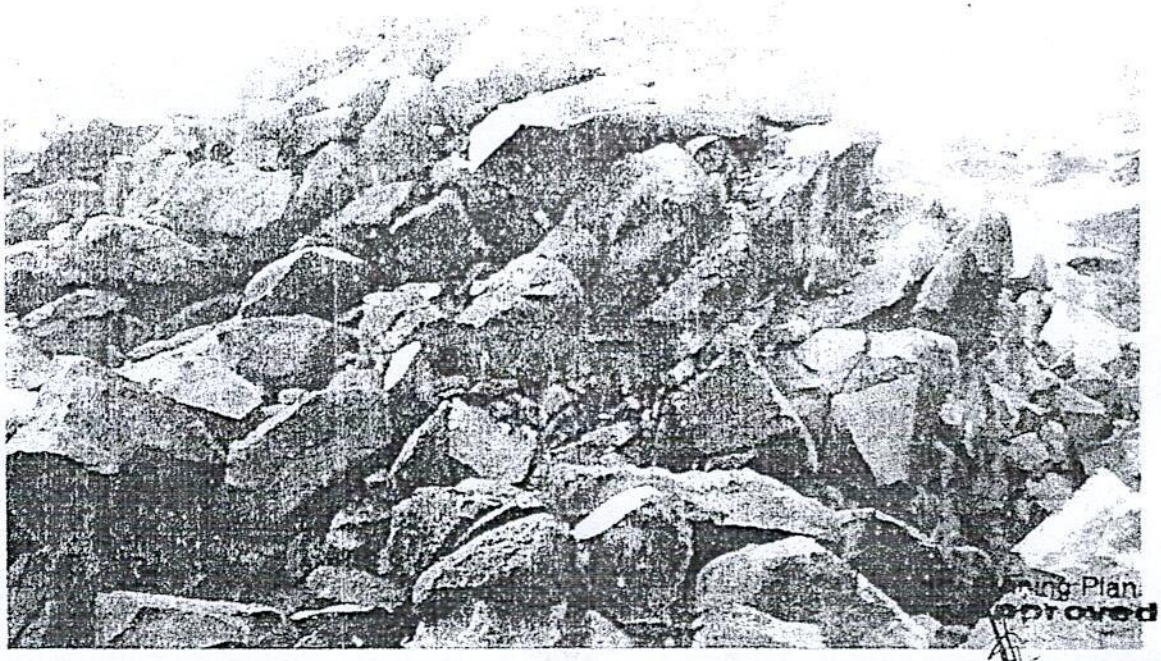
OVERALL VIEW OF THE AREA



STONE DEPOSIT IN THE AREA



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CHAPTER IV

EXPLORATION

4.1 EXPLORATION OF THE AREA

The rock types are very well exposed at the southern slope and the eastern part of the deposit within the Lease hold area. Well-developed exposures of granitic rocks and gneissic rocks are present through out the area.

Since the rock types are exposed in the entire lease hold area, hence the detailed exploration is not required.

At places, it is concealed by soil, bushes and shrubs. However the Applicant has made the small pits as well as trenches to prove the existence of the mineral . No over burden in the entire Applied area is revealed.

The exposures in the small streams and nalas, though at a distance are also studied.

4.2 Findings of Exploration Activities :

As a result of pitting and trenching as well as the huge exposures ,it is establishedthat the mineral exists at least up to 30 m. above the ground level and 5 m below the ground level.

4.3 Future Exploration Activities:

Future exploration activities may be undertaken as per the requirement after the mining is started in the area.

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CHAPTER V

RESERVE ESTIMATION

METHOD OF RESERVE ESTIMATION:

The standard Cross Sectional Area Method for the estimation of the Reserve has been adopted. The following process has been adopted:

a) Sections have been drawn from one boundary to other across the Applied area based on the encounter of maximum number of litho units present in the area. Here much variation or practically no variation are observed. The sectional area has been estimated on the basis of the cross sections.

b) Length of the influence has been measured by taking half of the section interval distance on both sides of each section.

c) A bulk density of 2.7 is considered for calculation of the reserve.
The reserve has been calculated in two categories as Proved Reserve and Probable Reserve as follows:
Proved Reserve has been calculated on the basis of stone exposed on the hill which is taken up to 30 mtrs as an average depth.
Similarly, the Probable Reserve is estimated on the basis of assumption of further up to a depth of 5 m.
Mineable Reserve is based on the Mineable part of the reserve and it is calculated from the geological reserve in the area considering the mineral which is not mineable in view of the blocked zone in ML boundary and ultimate pit limit as calculated from the geological plan and sections.

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PAHARPUR STONE DEPOSIT, APPLIED AREA 12.00 ACRES
APPLICANT: M/S JAI BABA PATALPURI STONE MINES & CRUSHER (PVT.) LIMITED
PROP. SMT REKHA DEVI

MEASURED MINERAL RESERVE OF STONE

SECTION	SECTIONAL AREA (m^2)	LENGTH OF INFLUENCE (m)	VOLUME (m^3)	T.F.	STONE (Tonnes)	Recovery @ 95%
1-1'	1588.00	172	273136	2.7	737467.20	700593.84
2-2'	3805.00	90	342450	2.7	924615.00	878384.25
3-3'	702.00	103	72306	2.7	195226.20	185464.89
Total					1857308.40	1764443

INDICATED MINERAL RESERVE OF STONE

SECTION	SECTIONAL AREA (m^2)	LENGTH OF INFLUENCE (m)	VOLUME (m^3)	T.F.	STONE (Tonnes)	Recovery @ 95%
1-1'	465.00	172	79980	2.7	215946.00	205148.7
2-2'	1050.00	90	94500	2.7	255150.00	242392.5
3-3'	963.00	103	67259	2.7	181599.30	172519.335
Total					652695.30	620060.54

PROVED MINERAL RESERVE OF STONE (121)

SECTION	SECTIONAL AREA (m^2)	LENGTH OF INFLUENCE (m)	VOLUME (m^3)	T.F.	STONE (Tonnes)	Recovery @ 95%
1-1'	1335.00	172	229620	2.7	619974.00	588975.3
2-2'	3580.00	90	322200	2.7	869940.00	826443
3-3'	612.00	103	63036	2.7	170197.20	161687.34
Total					1660111.20	1577105.6

PROBABLE MINERAL RESERVE OF STONE (122)

SECTION	SECTIONAL AREA (m^2)	LENGTH OF INFLUENCE (m)	VOLUME (m^3)	T.F.	STONE (Tonnes)	Recovery @ 95%
1-1'	396.00	172	68112	2.7	183902.40	174707.28
2-2'	905.00	90	81450	2.7	219915.00	208919.25
3-3'	543.00	103	55929	2.7	151008.30	143457.885
Total					554825.70	527084.42

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FEASIBILITY MINERAL RESOURCES OF STONE (221)

SECTION	SECTIONAL AREA (m^2)	LENGTH OF INFLUENCE (m)	VOLUME (m^3)	T.F.	STONE (Tonnes)	Recovery @ 95%

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SUMMARY OF CATEGORISED RESERVES

Mineable Reserve	2104190.02
Mineral Resource	280313.46
Geological Reserve	2384503.54

SUMMARY OF MINEABLE RESERVE

Category of Reserve	Total Reserves in Tonnes
Mineable Proved Reserve (121)	1577105.60
Mineable Probable Reserve (122)	527084.42
Total	2104190.02

ANTICIPATED LIFE OF THE MINE:

The total recoverable Mineable Reserve will be 2104190.02tonnes. In five years, a total of 1050526.53tonnes stone will be worked out for a period of five years with average production of 210205.31 tonnes and maximum Production of 210212.01 tonnes.

Hence the life of the Mine will be 10.00 years.

Also, at the maximum rated capacity, the life of mines is also estimated to be 10.00years.

However the Reserve may increase further after more and more exploration work is done in future.

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CHAPTER VI

MINING

6.1 General:

On the basis of the existing surface features of the area, it is highly potential in terms of mineral i.e. stone. The existing village foot path (1m wide) is developed in central portion of the Applied areaon the two sides of which the work will be started. The mineral body is undulatory in nature and gently rising from south west and north east to central portion with anelevation on the central part of the area. The quarry benches will be maintained along with ramp and haul road. The intercalated waste will be generated during the course of mining .The Waste will be temporarily dumped towards the south western boundary of the Applied area. While developing the quarry benches, the norms for safe and systematic development will be strictly followed.

The quarry benches will be of dimension of 3mX 5m and it will start from the north and north east simultaneously and it will continue towards centreand south west of the Applied area along with suitable ramp and haulage system. The provisions of Metalliferous Mines Regulations Act, 1961 will be complied by adopting the 3mX5m benching system. The details of advancement and formation of benches are shown in year wise developmental Plans and Sections (Plate no. 6A,6B,6C,6D,6E,8) in the scale of 1:1000.

6.2 Mining Strategy:

Taking into consideration the massive nature of the stone deposits and availability of the deposit at shallow depth in the present area, it is proposed to use the open cast semi mechanized mining only. The operations like drilling of shot hole , sorting of ore and breaking at the required sizes will be done manually so as to deploy the 100 mm dia wagon drilling machine to drill and blast holes having burden and spacing of 3m X 3.5 m in stagger grid pattern. Muffle blasting will be adopted as precautionary measure.

6.3 Production Target:

Year wise production of the stone has been calculated by cross sectional method. The cross sectional area has been multiplied by the advancement to be worked out in each bench as length of influence to get the bulk volume. Thus the value obtained has been multiplied by the tonnage factor to get the actual production of ore in each bench. Year wise calculation has been made separately and the details of year wise development of the quarry are given in Annexures.

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Year	(Stone) MT	Generation of I/waste in cum	O/B waste in Cum	Total waste in Cum	Stripping Ratio (cum/t)
1st Year	210099.15	4096	--	4096	0.02
2nd Year	210001.68	4094	--	4094	0.02
3rd Year	210140.19	4096	--	4096	0.02
4th Year	210073.50	4095	--	4095	0.02
5th Year	210212.01	4098	--	4098	0.02
Total	1050526.53	20479	--	20479	0.02

6.4 Bench Design and Formation

Since the mine will be worked out in mechanized working pattern during this remaining plan period of 5 years , bench height will be restricted to the statutory 3m X 5m due to compactness of the hard stone which shall comply with the norms of DGMS.

6.5 Bench Development over the plan period:

The working of the next five years will be started from the north and north east corner of the Applied area and will be extended towards central and south west portions.The details of advancement and subsequent formation of benches are shown in Developmental plans and sections (Plate no. 6A,6B,6C,6D,6E,8) in the scale 1:1000.

1st year:

During this year, working will be started on the north and northeast corner of the area along with three benches of 3m X 5m in dimension with RL 201.20m, 204.40m and 204.45m.The generated intercalated waste material will be temporarily dumped on south eastern corner of the area. For haulage of the ore, old permanent ramp will be maintained at the quarry face. The Plantation will commence from the northernpartof the quarry.(Ref. Plate-6A). The details of the calculation are given below:

1st YEAR

SECTION LINE	Bench Bottom RL	STONE	INFLUENCE	STONE	T.F. STONE	Tonne STONE	recovery @95% STONE	per day
1-1'	204.4	50	177	4460	2.7	25542	24264.9	
2-2'	204.45	431	50	29730	2.7	80433	76411.35	
	201.2	474	90	42660	2.7	115182	109422.9	
				81910		221157.00	210099.15	700.33

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2nd Year:

During this year of operation, the quarry in the previous year will be deepened further. A total of three benches will be developed with R.L.201.40m. 201.20m and 198.20m. The benches are restricted to 3m X 5m in direction as per the DGMS norms. For haulage of the ore, old permanent ramp will be maintained at the quarry face (Ref. Plate 6B) The Plantation will continue along theeasternboundary.

Detailed calculations are given below:

SECTION LINE	Bench Bottom RL	SECTIONAL AREA STONE	INFLUENCE	CUM STONE	T.F. STONE	Tonne STONE	recovery @95% STONE	
1-1'	201.4	[illegible]	172	[illegible]	[illegible]	74768.4	71029.98	
2-2'	201.2	[illegible]	90	[illegible]	[illegible]	[illegible]	28547.75	
	198.2	[illegible]	42	[illegible]	[illegible]	[illegible]	117429.95	
				[illegible]		221054.4	210001.68	700.01

3rd Year:

During this year of operation, the benches will be deepened in the earlier quarry.A total of three benches will be developed with R.L. 198.40m. 195.40m and 195.20m. The benches are restricted to 3m X 5m in direction as per the DGMS norms. For haulage of the ore, old permanent ramp will be maintained at the quarry face (Ref. Plate 6C).The plantation will continue up fromsoutheasternside of Applied area.

Detailed calculations are given below:

SECTION LINE	Bench Bottom RL	STONE	INFLUENCE	STONE	T.F. STONE	Tonne STONE	recovery @95% STONE	
1-1'	198.4	[illegible]	172	[illegible]	7	[illegible]	[illegible]	
1-1'	195.4	[illegible]	172	[illegible]	[illegible]	[illegible]	60912.46	
2-2'	195.2	121	90	[illegible]	2.7	28403	27932.85	
				71036		221200.2	210140.19	700.47

4th Year:

During this year of operation, the quarry will further be deepened. A total of three benches will be developed with R.L. 192.40 m. 195.20m and 192.20m. The benches are restricted to 3m X 5m in direction as per the DGMS norms. For haulage of the ore, old permanent ramp will be maintained at the quarry face (Ref. Plate 6D) The plantation will continue in the south and south western boundary ofthe Applied area.

Detailedcalculations are given below:

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4th YEAR

SECTION LINE	Bench Bottom RL		INFLUENCE		T.F.	Tonne	recovery @95%	
		STONE		STONE	STONE	STONE	STONE	
[illegible]	[illegible]	180	[illegible]	[illegible]	2.7	83592	79412.4	
[illegible]	[illegible]	382	[illegible]	[illegible]	2.7	92826	88184.7	
[illegible]	[illegible]	184	[illegible]	[illegible]	2.7	44712	42476.4	
					2.7	0	0	
						221130	210073.5	700.25

5th Year:

During this year of operation, entire boundary will be deepenedfurther. Threebenches will be developed from 189.40m.192.20m and 189.20m in this year. The bencheswill be restricted to 3m X 5m in direction as per the DGMS norms. The generated intercalated waste will be used for backfilling of the quarry. For haulage of the ore, old permanent ramp will be maintained at the quarry face (Ref. Plate 6E) The plantation will be completed in the entire western part of the Applied area.

Detailed calculations are given below:

[illegible]

SECTION LINE	Bench Bottom RL		INFLUENCE		T.F.	Tonne	recovery @95%	
							STONE	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71471.16	
	[illegible]	[illegible]	[illegible]	[illegible]	2.7	[illegible]	75718.8	
	[illegible]	[illegible]	[illegible]	[illegible]	2.7	[illegible]	63022.05	
						221275.8	210212.01	700.71

6.6 Notes on Conceptual Plan for the Lease period:

The Guide Lines issued by Director of Mines' Safety through its various circulars and notifications will be strictly adhered to.

Pattern of Utilization	*Existing Land use*	*At the end of plan period*	*At Conceptual period*
	Ha	*Ha*	*Ha*
Quarry	Nil	2.371	3.881 (2.388 ha area shall be used forRain Water Harvesting) and 1.493 for for Dead Bench Plantation
Road	Nil	0.005	0.005

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CHAPTER – VII

MINE DRAINAGE

7.0. **Mine Drainage:**

The Sakri river are flowing approx. 1Km north from the area.. Likely depth of water table based on observations from nearby wells and water bodies:

1. The water table is 20m below the ground level.

2. The area is gently sloping and working will be done in this area above ground water table.

3. Adequate number of diesel pumps will be kept standby. During rainy season water from the pit, if available, will be sampled and the results will be submitted when required.

There is no surface water and ground water body available in theApplied area.SakriNadiis flowing about1 Km.north from the area The proposed area with its surroundings is gently sloping. The area is much above HFL and there was no occasion of flooding in the area. From the tube well, sunk in the area, it has been observed that the ground water table is 20 meter below the ground level. The quality of the water sample from the tube will be analyzed. The proposed mining operation is semi-mechanized and does not affect any pollution at the remarkable scale.

An ambient water quality monitoring network will be designed for assessment of the baseline status of ambient water quality. The parameters to be monitored are given as below:

(1) PH (2) E.C. (3) Ca- Concentration (4) Mg-Concentration (5) Na- Concentration (6) K-Concentration (7) HCO3 - Concentration of bi-arbonate (8) Cl-Concentration of Chloride (9) Total hardness as CaCo3.

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CHAPTER – VIII

STACKING OF MINERAL REJECT AND DISPOSAL OF WASTE

8.0. Nature of Waste:

Stone is exposed in the area and no soil cover is observed in this area. The small quantity of waste will be dumped in the Applied area with suitable precaution in the plan period & will be used for backfilling in the conceptual period. As there is no huge soil, so there is no question of permanent dump. Entire extraction of stone will be sent to the crusher or will be sold so no question for dump or storage of the stone.

8.1. Selection of dump site:

The waste will be dumped in the Applied area temporarily with suitable precaution in the plan period and will be used for road dressing. Details of year waste is as given below:

Year	Generation of I/waste in cum	O/B waste in Cum	Total waste in Cum
1st Year	4096	--	4096
2nd Year	4094	--	4094
3rd Year	4096	--	4096
4th Year	4095	--	4095
5th Year	4098	--	4098
Total	20479	--	20479

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CHAPTER IX

MINERAL PROCESSING

9.1 Mineral Processing:

In case of stone mining, there is no scope for Mineral beneficiation to upgrade the ROM. Also the Stones of the area are said to be one of the best quality stone in theJharkhand .But the processing of the stone is essential from the marketing point of view.

The main role of processing includes the sizing of ROM (6mm to 63mm) depending upon the purpose for which it has to be utilized.

The boulders are also being sold in the market.

For sizing of ROM, the Applicant shall use the mineral in his own Crusher as and when required after observing all statutory compliances. The stone may also be processed in other crushers with all valid statutory clearances. Here mined out stone may directly be used in different forms ranging from boulders to aggregates.

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CHAPTER X

MANPOWER MANAGEMENT

10.1 Manpower Planning:

There would be 300 working days in a year. Taking into account 5 years period, the following Managerial and Supervisory personnel would be deployed under Section 42 of MCDR, 1988:

10.2 Employment Potential:

The Production Schedule of the deposit indicates that there would be no radical change in Man Power planning for the Mine from the present although there may be changes in the number of unskilled labor. The number may increase or decrease on the quantum of over burden to be removed. A total of 6 miners will be deployed for raising purposes and 11 unskilled workers will be engaged for removal of over burden, quarry cleaning and road repairing. Technically and statutorily competent persons will be employed as per the following chart:

S.no.	Designation of Employee	No. of Persons
01.	Manager 2nd Class	01
02.	Mining Mate	01
03.	Blaster	02
04.	Blaster Helper	02
05.	Munshi (Office Staff)	01
06.	Compressor Operator	02
07.	Driller	02
08.	Poclain Operator	02
09.	Dumper Operator	02
10.	Miner(Semi Skilled)	06 (Inclusive of absentees & leave)
11.	Unskilled	11
	TOTAL	32

10.3 Essential and Site Services

a) Rest Shelter

b) Pit House

c) First Aid Arrangement

d) Drinking Water

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Since the mine is a small one, hence these services shall be provided by mobile units which shall move from one location to the other. Also the Mine office shall be established outside the Mine premises. Temporary shades will be made for site document works.

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CHAPTER XI

INDUSTRIAL AND OTHER USES OF MINERAL

Uses of Mineral:

a) The Applicant is a reputed and dedicated Buisnessman in various fields including Infrastructural Development including the Road and Building construction.

b) The Run of Mines will be used as construction materials in making buildings.

c) The ROM and the sized mineral shall be used in making of roads as well as for road widening.

d) The ROM and the sized ore shall be used for Dam Construction work also if the Applicant desires to sell the surplus stones in the Market.

e) The boulders of various sizes may be utilized for River anti erosion, embankment works etc.

f) The Stone of this area are also utilized for ballast stone in railway tracks.

g) Even the weathered part of the deposit can be utilized for pitching in river embankment and filling up of pits etc. in State and National Highways.

h) The ROM and the processed mineral may also be utilized in irrigational projects also.

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Plantation (in Safety Zone)	Nil	0.950	0.950
Total Used	Nil	3.272	4.836
Unused	4.856	1.584	0.020
Total	4.856	4.856	4.856

During this 5 years Plan period, the area will be worked out except the Safety Zone of 7.5 m. The office area, the crusher area and the labor hutments etc. will be movable. The infrastructure will be shifted to a safer place during the course of conceptual plan period. As there is no huge burden hence the question of dump is over ruled. The entire over burden will be used for back filling and to some extent for haul road dressing. The void space left after mining and back filling will be treated as Water Reservoir. The embankment of the reservoir will be all around the reservoir and fencing with barbed wire will be made around the reservoir to make the area vulnerable by anybody.

6.7 Blasting:

DRILLING AND BLASTING PARAMETERS

Blasting has got the utmost importance in mining operation because it has to compatible with the shovel loader but also preferably as it will obviate the necessary of secondary blasting which is known to be very costly. The feed size for the crusher has to be low below 600mm because it is important that variations of the hardness of the formation do not result in waste use of explosives with unbalanced product size. It is also very important that fines so generated are kept as low as possible.

The distribution of charge in the blast hole is a follows:

Bottom charge with booster (slurry explosives) and column charge also by low speed slurry explosives will be charged in the ratio of 15:85 respectively.

Considering the nature of strata deposit and height of the bench deck charging shall be carried out in as following manner:

a) Deck Charging with drill cutting
b) Air decking

Pattern and Sequence of Firing:

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In normal patterns of holes with 3.0 m burden, a spacing of 3m will provide the best results. The pattern of delay blasting in conjunction with use of detonating fuse will take into account existence of any natural cleavage layout and sequence of firing of the blast holes pattern proposed for blasting.

Depending upon the composition of the formations, some degree of deck loading may have to be resorted for better fragmentation.

TYPES OF EXPLOSIVES TO BE USED

Nitro Mixture explosives are used for blasting. Deck charging is used wherever necessary.

POWDER FACTOR

It is expected that powder factor of over 6 tonnes per kg of explosives is achieved.

STORAGE OF EXPLOSIVES

Drilling and Blasting operations will be carried out strictly as per the provisions mentioned in MMR, 1961. The Qualified Technical man Force will have the strict supervision for compliances under the Act. To store and issue the required Explosives, the relevant provisions of Indian Explosives Rules, 1983 will be followed.

The blasting time will be scheduled only at Lunch time or after the working shift handing over / taking over time. The required precautions like marking the Danger Zone with red flags, use of warning signals and providing blasting shelters will be made.

Drilling and Blasting:

Though care has been taken to keep the mine away from the population, but precaution will be taken to minimize the noise caused by blasting. All necessary safety precaution is being taken in accordance with the Statutory Acts and Rules. Precaution are also taken as per the permission given under Section 106(2) (b)MMR , 1961 by Director General of Mine Safety for deep hole drilling and blasting as well as usage of heavy earth moving machinery.

Vibration:

In order to minimize vibration during the pre and syn-mining operations, the following precautions will be taken:

a) Blast holes will be initiated by non-electric (NONEL) down the hole (DTH) delay detonators.
b) Care is taken to insure t shall be hat effective burden is not excessive and the face shall be kept very long. The burden shall be kept at 2.5 m and spacing will be 3m.

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c) Optimum charge per delay shall be kept as low as possible.
d) The depth of the hole is normally 5 m which includes about 0.5 m of sub grade drilling i.e. about 10 % of the depth of the hole .The diameter of the hole is kept at 100mm.
e) Adoption of two row blasting and V pattern of firing shall be implemented.
f) The firing of maximum possible number of blast holes towards the free face will be done.
g) Use of delay detonators between the holes and the rows of blasting will be adopted.

Noise:

The noise is another pollution causing factor in mining operations. In order to minimize the pollution by noise, the following steps have been taken:

1. Blasting will be well planned, designed and blasted periodically rather than a series of unplanned daily blast. All the explosives and the NONEL detonator is put within the blast hole and instead of detonating fuse . NONEL Trunk Line Delay detonator is used for trunk line connection.
2. Lasting shall be so planned as to minimize boulders. so that the secondary blasting will be reduced.
3. In order to absorb the blast noise thus reducing the noise, Green Belt with trees of varying heights shall be developed.

Fly Rocks:

While blasting, if the holes are not properly designed and charged. the main thrust of the blast will be upward and instead of fragmenting the rock, there will be outward surge resulting in rock fragments flying.

The following steps are taken to avoid or minimize the fly rock:

a) Stemming length shall be kept equal to the burden.
b) Inter row delay shall be selected in such a way that each row pushes its burden forward rather than in upward direction.
c) Toe formation shall be avoided by proper design of drilling and blasting as toe hole blasting involves increased risk of fly rocks.
d) To avoid fly rock problem at the edge of hill light charge muffle blasting shall be undertaken.

6.8 Machinery and Equipments Deployment:

The following Table gives the List of equipment and Machinery to be used with Salient Features :

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S.no.	Type of Machine	No.	Dia of hole in mm	Size/ Capacity	Make	Motive Power	HP
01.	DTH	2	100	25m hour	Atlas Capco CCM 785	Diesel	440
02.	Excavators	2		0.9 cu m	Komatsu PC 200	Diesel	124
03.	Compressor	2		300 cfm	Atlas Capco	Diesel Operated	1
04.	Jack Hammer	2			Atlas Capco		
05.	Tippers	4		15 MT	Tata	Diesel	98.5

1. DTH :
The DTH will be used to drill for Stone Production. This machine will give a productivity of 25m in one hour which shall be sufficient to give the yield of about 24 tonnes of stone against one meter of drilling.

2. EXCAVATOR :
It is the loading instrument to handle the required quantity of material. One excavator will be sufficient to handle the required targeted development of the mine.

3. HAULAGE AND TRANSPORT EQUIPMENT :
Two tippers will be required to transport top soil and stone to stock yard.

4. Compressor and Jack Hammer :
One number of Compressor and one no. of Jack Hammer shall be required for smooth working of DTH.

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CHAPTER - XII

ENVIRONMENTAL MANAGEMENT PLAN

In case of Open Cast Mining, the Environment is always affected. To look into the environmental protection due to the mining activities, Environmental Management Plan has been prepared. The present scenario of environmental attributes and activities are shown in Plate 7.

12.1 Base Line Data

12.1.1 Existing Land Use Pattern

Category	Area in hectares	Area in Acres
Quarry	0.00	0.00
Road	0.00	0.00
Infrastructure(Office & Crusher)	0.00	0.00
Dump	0.00	0.00
Plantation	0.00	0.00
Total area in use	0.00	0.00
Total Unused area	4.856	12.00
Total Leasehold area	4.856	12.00

12.1.2 Water

The proposed area with its surroundings is highly undulated. The SakriNadiapprox. 1Kmfrom the area. The area is much above HFL and there was no occasion of flooding in the area. From the tube well sunk in the area it is observed that the ground water table is 20meter below the ground level. The quality of the water sample from the tube will be analyzed.

Water Requirement:

Since the rivers are far away from the site, the required water for the Man Power, Plantation and Dust Suppression shall be met from digging bore well in the Applied area. The following quantity of water shall be required for the Mine:

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S. No.	Details	Quantity per unit	Quantity
1.	Man Power (32 nos.)	45 liters per day	1440 liters
2.	Plantation (3909 nos.)	2 liters per Plant	7818 liters
3.	Dust suppression in Mine (4.856 Hectare)	2000 liters per Hectare	9712 liters
4.	Dust suppression for Road (0.25 Km)	1000 liters per Km	250 liters
		TOTAL	19220 liters i.e. **19.22KLD**

12.1.3 Terrestrial Ecology

The study of Terrestrial Ecology involves the identification of animals, birds including nomadic and migratory, reptiles and amphibian fauna. Further, the dominant species of vegetation also needs identification.

12.1.4 Fauna:

Only domestic animals like cow, goat, buffalo, cat, dog etc are observed found in the area. As there is no natural forest cover, the area does not contain any wild animals. Only stray jackals are seen sometimes. Both poisonous and non-poisonous types of snakes are seen during summer and rainy seasons.

12.1.5 Flora:

The area is virtually denuded of vegetation. Neem, Palash, Eucalyptus, Akashmani trees are seen at places around the area. But no tree is reported within the Applied area.

12.1.6 Precaution against air pollution

There shall be some air pollution as explosive in blasting are used & some machinery is required in the mine. Attempt should be made to reduce this pollution & kept within permissible limits by sprinkling water n haul roads and surrounding mining area.

12.1.7 Management Plan

The 7.5m safety barrier will be used for green belt development all around and will be used for plantation of trees with deep vegetation so that air pollution from the mine shall be arrested.

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During Mining and crushing operation, fugitive dust will be the principal air pollutant. Following measures will be provided to reduce the air pollution

- Water spraying will be there in haul road, crusher and mining area.
- Wet drilling will be preferred.
- Sharp drill rods will be used to reduce dust generation.
- Dust extractor will be used to reduce dust generation.
- Proper monitoring of air quality data has to be maintained and in case it exceed the permissible limit, adequate measures like covering of the crushers has to be done.
- Avenue plantation in and around the quarry, dump site and crusher areas are to be raised.

12.3.2 Water Pollution Control Measures:

As it is envisaged that chances of contamination of water is lessor negligible, there is no need for direct water pollution control measure. However, toe wall has to be constructed all along the existing and proposed dump sites. Moreover, garland drains, gabions etc. are to be constructed so that during rainy season, dumping material due to erosion may be caught in the garland drain.

12.3.3 Storage of Top Soil/Rejects: - There is no generation soil. The waste will be used for road making etc.

12.3.4 Noise Pollution Control Measures

The main source of noise in the mining area is the operation of Heavy Earth Moving Machineries like Dumpers, Excavator etc. Besides drilling & blasting is also a potential source of noise pollution. Here, crusher will also produce noise pollution. In order to mininize the noise pollution following measures are suggested:

- Proper and timely maintenance of machineries.
- Major noise generating equipments like DG set will be kept in closed rooms.

12.3.5 Land Reclamation

When the deposit will be mined out then only the question of land reclamation will come. It is proposed that after the completion of quarrying operation, the excavated vacant area will be partly backfilled with the intercalated waste and rest vacant area will be converted into pool and will be utilized for irrigation and pisciculture purpose. Embankment will be made for protection all around the worked out area.(Ref. Plate -7).

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CHAPTER XIII

PROGRESSIVE MINE CLOSURE PLAN

13.0. 1 Name & Address of the Applicant:

1. Name & Address of the Applicant :

Name: M S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited, Prop.: Smt. Rekha Devi

Registered Office:C O Sri Ravi Shankar Prasad. Purni Bazar. Dist. Nawada , Bihar

Site Office:Village: Paharpur, Thana:Gawan. Anchal :Gawan. Dist.:Giridih, Jharkhand

13.1.0.Reasons for Closure:

As per the Government order and rule the Applicant has to submit Mining Plan with Progressive Mine Closure Plan feasibility report for environmental clearance of the project. The reason for mine closure does not arise at this stage because the working will be started after getting its' Environment Clearance from MOEF and mining work shall be supervised by qualified Mining and Geological personnel.

13.1.1. Statutory Obligations:

The Applicant shall follow all the Rules and Regulation as per the law for mining lease in MMDR Act-1957 with all amendments, MMR-1961, Mines Act-1952 & Mines Rules-1955.

13.1.2. Status of Applicant:

Private Limited Companywith itsProprietor Smt. Rekha Devi.

13.1.3. Name & Address of the RQP Preparing the Mining Plan:

DR. ANAL K. SINHA
M.Sc., M.Tech., Ph. D., LLB
"CHANCHLA SMRITI"
FURAN VIHAR,
ARGORA BYE PASS ROAD,
RANCHI -834002 , JHARKHAND
Contact no. 7762923277/ 9608302140
Email ID : Sinha.anal@rediffmail.com

REG. NO. RQP/RNC/162/2013/A
VALID UPTO 09.07.2023

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13.2.0. Mine Description:

Please refer Chapter VI of the Mining Plan.

13.2.1. Regional Geology.

Please refer Chapter III of the mining Plan.

13.2.2. Local Geology of the Area:

Please refer Chapter III of the mining Plan.

13.2.3. Reserve Calculation:

Please refer Chapter V of the mining Plan.

13.2.4. Mining Method:

Please refer Chapter VI of the mining Plan.

13.2.5. Mineral Beneficiation and Processing:

Please refer Chapter IXof the mining Plan.

13.3. Review of Implementation of Mining Plan / Scheme of Mining including Five Years Progressive Closure Plan up-to the Final Closure of Mine:

Not applicable.

13.4.0. Closure Plan:

13.4.1. Mined Out Land:

In general, the environmental impacts will always be adverse. due to mining operation, if proper abatement measures will not be taken. The magnitude and significance of the environmental pollution caused by mining, depends on type of mineral. method of mining and beneficiation etc. As a result of mining operation, the original ground profile will be altered. The Applied area is small. In the mining period, alluvium soil will be generated which will be used for plantation within the lease boundary. After exhausting of the metal stone from the area the quarried out void will be converted into water reservoir. The Plantation in the dead benches is also planned.

LAND USE PATTERN:

Details	Existing	5th Year	Conceptual	%age
Quarry Reservoir	0.00	2.371	2.393	49%

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Road	0.00	0.005		
Infrastructure	0.00	0.00		
Dump	0.00			
Parapet Wall	0.00	0.00		
Garland Drain	0.00			
Plantation	0.00	0.950	2.443	51%
Unused	4.856	1.530	0.020	0.00
Total	4.856	4.856	4.856	100.00

13.4.2. Water Quality Management:

There is no surface water and ground water body available in the Applied area. There is no perennial river stream or spring present near by the Applied area. The water table is available at 20 meters below from the normal surface level. During the summer water table goes down (i.e. below 20 meters) and in the rainy season it comes up within 20 meters. This is evident from the nearby wells, as well as informed by the villagers. The proposed mining operation is semi-mechanized and does not affect any pollution at the remarkable scale.

13.4.3. Air Quality Management:

The Applied area is presently free from pollution. Due to the semi-mechanized mining operation, it will not affect the immediate vicinity of the mine Applied area. There will be some deployment of heavy machinery. Blasting & transportation will only create dust or air pollution which will be of very less impact.

Dust, generated due to movement of vehicles will be checked by water sprinkling carried out, time to time on all the approached roads. The dust generated due to crushing is negligible, if increased; it will be checked by I.D. fan & cyclone system. Therefore, no significant impact on the quality of air in the surrounding area is feared.

An ambient air quality monitoring network will be designed for assessment of the baseline status of ambient air quality. The parameters to be monitored are given as below:

PM 2.5

Suspended Particulate Matter (SPM)

Respirable Particulate Matter (RPM)

Sulphur Dioxide (SO_2)

Nitrogen Oxide (NOx)

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Carbon Monoxide

The frequency of sampling shall be twice a week for complete one season. Ambient air quality monitoring is proposed to be conducted for one season.

Noise:

Equivalent continuous noise level (Leq) in and around the project area will be monitored. Noise readings will be taken at every hour for 24 hours at each location. The monitoring will be done for one season as a part of EIA study.

Others:

As a part of the study the information on the following will be collected through forest department and revenue offices:

Preparation of an inventory of major species of trees, herbs, shrubs and timber trees in the area;

- List of economically important plants, if any;
- Presence of rare and endangered species, if any;
- Preparation of an inventory of major wildlife species including mammals, Reptiles, birds, etc.
- National parks, if any;
- Wild life sanctuaries game reserve, if any;
- Tiger reserve elephant reserve turtle nesting ground, if any;
- Breeding grounds, if any;
- Core zone of biosphere reserve, if any;
- Habitat for migratory birds, if any;
- Mangrove area, if any;
- Areas with threatened (rare, vulnerable, endangered) flora fauna, if any;
- Protected corals, if any;
- Wetlands, if any;
- Zoological gardens, if any;
- Gene Banks, if any;
- Reserved forests, if any;
- Protected forests, if any;
- Any other closed protected area under the Wild Life (Protection) Act, 1972, any other area locally applicable

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The publications available in the form of maps and documents will also be collected and utilized. The data on the availability of various floral and faunal species in the study area will also be collected form Department of Forests and utilized.

13.4.4. Waste Management:

There is no material which can be called as waste.

13.4.5. Top Soil Management:

As the mine is already in operation so no topsoil will be generated in the course of mining of the stone.

13.4.6. Tailing Dam Management:

Not applicable.

13.4.7. Infrastructure:

The Applied area is well connected with tehsil and district head quarter by all weather roads where all facilities are available. However, the Applicant shall have his own facility soon after starting of the mine.

13.4.8. Disposal of Mining Machinery:

It has already been mentioned that the whole mining operation is semi-mechanized in nature. Therefore, question does not arise for disposal of machinery at the stage of five years of plan period.

13.4.9. Safety & Security:

The Applicant will follow all the rules and regulations as per the provision of Director General of Mines Safety for safety and security of the proposed mine. To prevent access to surface opening or excavated area from cattle's and local people, the Applicant will arrange security for round the clock and round the year.

13.4.10. Disaster Management and Risk Assessment:

The proposed Applied area is small and the mining operation is completely semi-mechanized in nature. There is no any river or stream, flowing in direct vicinity of the proposed Applied area. No seismic activities are recorded in this area during the last 50 years as per the village officials. The mining operation will not go to the much deeper side, hence chances of land slide, subsidence etc is nil.The proposed project site falls in zone-II as per IS 1893 (Part-I): 2002. Hence, seismically it is a stable zone.

13.4.11. Care and Maintenance during the Temporary Discontinuance:

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During such time the area will be protectively fenced and staff will be arranged for care and maintenance.

13.5. Economic Repercussion of Closure of Mine and Manpower Retrenchment:

It is not inferred to discuss the economic repercussion of mine and manpower retrenchment at this stage.

13.6. Time Scheduling for Abandonment:

On the basis of average production of building stone the anticipated life of the proposed mine is estimated about 5 years only from first year of mining plan period. Production of the building stone will mainly depend on the actual demand of the market. Therefore, it is very difficult to give time schedule for abandonment at this stage. Due to the less removal of overburden as compared to the building stone, abandoned pit is not inferred to be fully reclaimed by the process of back filling. Therefore, the year wise schedule of reclamation of the production pit will not be inferred at this stage. The Schedule of Reclamation of the mined out Applied area will be done only at final mine closure period. The abandoned pit will be used for storage of water reservoir for irrigation fishery purpose.

13.7. Abandonment Cost:

It is very difficult to estimate the abandonment cost at this stage but the expenditure on the other hand for environment and plantation are given in the following table:

Description	Quantum of Work to be done	Approx. total cost of Process (in Rs.)
Reclamation and Rehabilitation of excavated pits	The reclamation of worked out area at this stage is not possible	NIL
Waste dump Management	No soil cover present hence not applicable	NIL
Plantation & green belt development	2.443Ha area will be used for greenbelt development (both safety Zone and Dead Benches) using 3909 plants in Plan period	195450/-
Air and water Quality monitoring	Half yearly in 2 location for air, water and noise @ Rs. 2500 each for Water and Air parameters stations&Rs. 1000 - for noise Parameter Station.	120000/-
Decommissioning of infrastructure	This will be a running mine. All site services are available on the mine. At this stage it is not required	Nil

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Disposal of mining machineries	At this stage it is not required	Nil
Others	Fencing etc.	20000
Tentative cost of abandonment		335450/-

13.8. Financial Assurance:

Financial assurance has been computed on the basis of area put to various uses indicated in the circular. Accordingly, the land uses are indicated in the following table.

Sl. No	Head	Area put on use at start of plan in Ha.	Additional requirement during plan period in Ha.	Total in Ha.	Area considered as fully reclaimed & rehabilitated in Ha.	**Net area considered for calculation in Ha.**
A	B	C	D	E E=(C+D)	F	G G= (E-F)
1.	Area to be excavated including haul road	0.00	2.376	2.376	NIL	2.376
2.	Storage for top soil	NIL	Nil	Nil	NIL	Nil
3.	Waste dump	0.00	NIL	0.00	NIL	0.00
4.	Mineral storage	NIL	NIL	NIL	NIL	NIL
5.	Infrastructure (Workshop, administrative building)	0.00	0.00	0.00	NIL	0.00
6.	Railways	NIL	NIL	NIL	NIL	NIL
7.	Green belt/Safety zone	NIL	0.950	0.950	NIL	0950
8.	Tailing pond	NIL	NIL	NIL	NIL	NIL
9.	Garland drain	NIL	---	---	---	---
10.	Toe Wall	NIL	---	---	---	---
11.	Effluent treatment plant	NIL	NIL	NIL	NIL	NIL
12.	Mineral separation plant	NIL	NIL	NIL	NIL	NIL
13.	Township area	NIL	NIL	NIL	NIL	NIL
14.	Others to specify Pits & Trenches	NIL	NIL	NIL	NIL	NIL
	Total	0.00	3.326	3.326	NIL	3.326

Financial assurance comes to be 3.326 Ha x Rs25,000.00 per Ha = Rs. 83150/-. The minimum Financial Assurance for Rs. 2,00,000 - (Rupees Two Lakh) only will be

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submitted as a Bank Guarantee by the Applicant to the concerned authority of State Government of Jharkhand before execution of the lease.

13.9. Certificate:

The above-mentioned actions have been taken to be stated clearly in the mine closure plan. A certificate duly signed by the Applicant to the effect that said closure plan complies all statutory rules, regulations, orders made by the Central or State Government, statutory organizations, court etc, have been taken into consideration and wherever any specific permission is required the Applicant will approach the concerned authorities. The Applicant should also give an undertaking to the effect that all the measures proposed in the closure plan will be implemented in a time bound manner as proposed.

The above certificates are enclosed at the beginning of the mining plan.

13.10. Plans, Sections etc:

The above chapters should be supported with Plans & Sections. The Closure Plan may also be submitted on compact disc etc. wherever possible.

Progressive Mine Closure Plan is enclosed as plate No 7.

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ANNEXURE - 11

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ANNEX IV