

MINING PLAN &
PROGRESSIVE MINE CLOSURE PLAN OF
SRI LIMESTONE MINE

M. L. Area - 38.129 ha

M. L. Area in Forest if any - 37.0 ha

Total M. L. Area - 38.129 ha

Lease Period - 50 years period w.e.f. 12.10.1981 to 11.10.2031

In Village - Satri, Tehsil - Rampur Baghlan,

- Forest Block- Satri,

Forest Range, Forest Division and District- Satna

State - Madhya Pradesh

For the Mineral - Limestone

Proposal Period - 2017 -18 to 2021-22

Category of Mine- 'A' Category

Registration Number Under Rule 45 of MCDR 1988 - IBM/10429/2012



उमोदित/APPROVED

Submitted to

Indian Bureau of Mines

Under Rule 16 of Minerals(Other than Atomic and Hydro carbons Energy Minerals)

Concession Rules, 2016 and Under Rule 23 of M.C.D.R., 2017

Lessee -

Shri Shravan Kumar Pathak

Chayanakyapuri,

P.O. & District - Satna (M.P.)

Pin Code - 485001, Phone - 07672-225292

क्षेत्रीय खान नियंत्रक

REGIONAL CONTROLLER OF MINES

भारतीय खान व्यूरो

INDIAN BUREAU OF MINES

जबलपुर/ JABALPUR

14/5/2017

Prepared by:

RAM CHANDRA BANSAL, MINING ENGINEER

C/o M/s. **Balram Singh Associates Pvt. Ltd.**

Chopra Colony, P.O.- Majhar

Distt.- Satna (M.P.) Pin : 485271

Phone No. : (07674) 232473

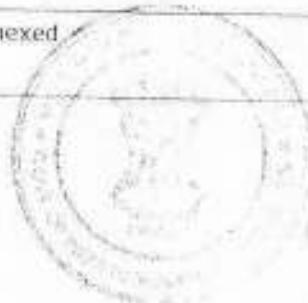
e-mail: hsapi.myr@gmail.com

इस प्राइवेट प्लान का अनुमोदन मान्यताप्राप्त
गन्तव्यदाता संघ MP/Satna/Lst/mPLN
G-17/17-18 दिनांक - 16/05/2017
में उल्लिखित कर्ता / प्रतिनिधि के द्वारा किया गया

R.C. BANSAL
Mining Engineer

INDEX

CHAPTER No.	SUBJECT	PAGE NO.
1.	General	3
2.	Location and Accessibility	4
3.	Details of approved Mining Plan/Mining Plan (if any)	6
Part - A	1. Geology & Exploration	8
	2. Mining	15
	3. Mine Drainage	25
	4. Stacking of Mineral Reject/Sub grade material & Disposal of waste	26
	5. Use of Mineral and Mineral reject	28
	6. Processing of ROM and mineral reject	28
	7. Other	29
	8. Progressive Mine closure Plan Under Rule 23 of MCDR 2017	30
Part - B	9. (A) Consent letter/ undertaking/ certificate from the applicant	43
	(B) Certificate from RQP	44
	10. List of Plans & Sections	45
	11. List of Document Annexed	46




 R.C. BANSAL
 Mining Engineer

CHAPTER - I

1.0 GENERAL

The area was previously sanctioned under mining lease for 20 years period vide State Govt. order no. - 599/7481/12, dated 19.01.1973 and 3641/1 dated 01.08.1981 (Annexure 2). The mining lease deed in Form 'K' was executed on 17.10.81 for period of 20 years upto 11.10.2001 (Annexure 2). The application for renewal of mining lease was filed before the State Govt. The lease area being in forest land, the State Govt. has given the in principle consent subject to approval under Section 2 of FCA 1980. Also the State Govt. vide its letter no. F-3-104/95/12 dated 14-03-2008 i.e. in principle consent has ordered to submit the approved mining plan as it is mandatory for approval vide application (Form-A) of FCA 1980 (Annexure-3). The lease area is also deemed to be extended for 50 years period from date of first grant i.e. 12.10.1981 to 11.10.2031 under MM (DBR) Amendment Act 2015.

(a) **NAME OF THE APPLICANT/LESSEE :** Shri Shravan Kumar Pathak

Registration Number Under Rule 45 of MCDR 1988 - IBM/10429/2012

Address : Chanakyapuri
 P.O. & District : Satna
 State : Madhya Pradesh
 Pin Code : 485001
 Phone No. : 07672-225292
 Fax No. : Nil
 Mobile No. : 09425172692
 e-Mail : Nil

(b) **STATUS OF THE APPLICANT/LESSEE :** Private individual

The detail of other Mining lease held by lessee are as under.

Sl. No	Lease reference No & date	Area (Ha.)	Postal address/location	Type of minerals
1.	Ramsthan Limestone Mine ML period- 22.07.1999 to 21.07.2019	32.374	Village and P.O.- Ramsthan Tehsil - Raghurajnagar District- Satna (M.P.)	Limestone

(c) **MINERAL(S) WHICH IS/ARE INCLUDED IN THE PROSPECT LICENSE :** NA

(d) **MINERAL(S) WHICH IS/ARE INCLUDED IN THE LETTER OF INTENT/ LEASE DEED :**
Limestone

(e) **MINERAL(S) WHICH THE APPLICANT/LESSEE INTENDS TO MINE :** Limestone

(f) **NAME OF THE QUALIFIED PERSON PREPARING THE MINING PLAN**

Address : Ram Chandra Bansal, Mining Engineer
 C/o M/s. Balram Singh Associates Pvt. Ltd.
 Chopra Colony
 P.O. - Malhar, Pin-485771,
 District: Satna (M.P.)
 Phone No. : (07674) 232473
 Fax No. : (07674) 232473
 e-mail : bsapi.myr@gmail.com


R.C. BANSAL,
Mining Engineer

2.0 **LOCATION AND ACCESSIBILITY** -(a) **LEASE DETAIL** -Name of Mine : **Satri Limestone Mine**

Latitude / Longitude of any boundary point -

Latitude	:	24°34'17.9" to 24°34'38.0" North
Longitude	:	80°58'05.0" to 80°58'39.0" East
Date of grant of lease	:	Date of Grant - 12.10.1981
Period	:	50 Years
Expiry Date	:	11.10.2031
Name of lease holder	:	Shri Shravan Kumar Pathak
Address	:	Chanakyapuri
P.O. & District	:	Satna
State	:	Madhya Pradesh
Pin Code	:	485001
Phone No.	:	07672-225292
Fax No.	:	Nil
Mobile No.	:	09425172692
e-Mail	:	Nil

(b) **DETAILS OF APPLIED/LEASE AREA WITH LOCATION MAP (FRESH AREA/MINE)**

Forest		Non-Forest	
Forest (specify)	Area (ha)	Khasara No.-902	Area (ha)
Compartment No.- 690 (old), 776 (New)	37.0 ha.	(i) Waste land	1.129 ha.
		(ii) Grazing land	Nil
		(iii) Agriculture land	Nil
		(iv) Others (specify)	Nil

District & State : Satna, Madhya Pradesh

Taluka : Rampur Baghelan

Whether the area falls under Coastal Regulation Zone (CRZ)? If yes, details thereof : No.

Existence of public road/railway line, if any nearby and approximate distance :

The Satna -Rewa NH-75 road is passing at a distance of 2.0 kms in south. Satna is the Distt. head quarter located at a distance of about 14 kms. from the lease area in west direction. The nearest railway station is Hinauta Ramvan on Rewa - Satna section of WCR at 0.4 km in SSW and Satna at 15kms in west.




R.C. BANSAL
 Mining Engineer

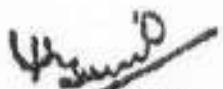
Original/ APPROVED

Toposheet No. with latitude & longitude of all corner boundary point/pillar
 Toposheet No. - 63 D/14.

Pillar No.	Latitude	Longitude	Pillar No.	Latitude	Longitude
1	24°34'18.7"	80°58'39.0"	2	24°34'18.5"	80°58'30.0"
3	24°34'18.4"	80°58'24.0"	4	24°34'18.1"	80°58'13.0"
5	24°34'18.0"	80°58'08.9"	6	24°34'17.9"	80°58'05.0"
7	24°34'20.3"	80°58'05.1"	8	24°34'23.2"	80°58'07.9"
9	24°34'26.9"	80°58'09.2"	10	24°34'32.2"	80°58'11.0"
11	24°34'33.9"	80°58'13.5"	12	24°34'36.6"	80°58'19.4"
13	24°34'35.5"	80°58'23.3"	14	24°34'38.0"	80°58'25.0"
15	24°34'35.4"	80°58'29.6"	16	24°34'35.2"	80°58'34.0"
17	24°34'29.8"	80°58'34.9"	18	24°34'22.4"	80°58'36.1"

(c) ATTACH A GENERAL LOCATION MAP SHOWING AREA AND ACCESS ROUTES. IT IS PREFERRED THAT THE AREA BE MARKED ON A SURVEY OF INDIA TOPOGRAPHICAL MAP OR A CADASTRAL MAP OR FOREST MAP AS THE CASE MAY BE. HOWEVER, IF NONE OF THERE ARE AVAILABLE, THE AREA MAY BE SHOWN ON AN ADMINISTRATIVE MAP.

A location map showing the ML area and access routes have been appended as plate -3. A Key Plan has been appended marked on the Survey of India Topo sheet No. 63 D/14 as Plate 1.



R.C. BANSAL
 Mining Engineer



Original/Approved

CHAPTER – III

3.0 **DETAILS OF APPROVED MINING PLAN/MINING PLAN (if any)**

3.1 **DATE AND REFERENCE OF EARLIER APPROVED MINING PLAN/SCHEME OF MINING:**
No Mining Plan was approved prior to this mining plan.

3.2 **DETAILS OF LAST MODIFICATION IF ANY (FOR THE PREVIOUS APPROVED PERIOD) OF APPROVED MINING PLAN/MINING PLAN INDICATING DATE OF APPROVAL, REASON FOR MODIFICATION :**
No modification in the approved mining plan/Mining Plan was carried out for the previous approved period.

3.3 **GIVE REVIEW OF EARLIER APPROVED PROPOSAL (IF ANY) IN RESPECT OF EXPLORATION, EXCAVATION, RECLAMATION ETC.**
No Mining Plan was approved prior to this mining plan and hence review is not stated. However the production since the inception of mining lease is given hereunder. The mine is closed since Jan 1997.

Statement showing FYwise Production and despatch of Satri Limestone deposit from 12.10.1981 to 31.01.1997 over an area of 38.129 Ha.

FY	Opening Stock	Production	Despatch	Closing stock
	MT	MT	MT	MT
1981-82 to 1986-87	0	0	0	0
1987-88	0	6700	6352	348
1988-89	348	5650	5372	626
1989-90	626	2240	1672	1194
1990-91	1194	1258	1972	480
1991-92	480	250	480	250
1992-93	250	250	200	300
1993-94	300	200	200	300
1994-95	300	240	200	340
1995-96	340	840	1040	140
1996-97	140	400	378	162
Total		18028		

The mining plan was not submitted inadvertently due to lack of knowledge of Rule 11 of MCDR 1988.

3.4 **GIVE STATUS OF COMPLIANCE OF VIOLATION POINTED OUT BY IBM:**
No Violation was pointed out.

3.5 **INDICATE AND GIVE DETAILS OF ANY SUSPENSION/CLOSURE/PROHIBITORY ORDER ISSUED BY ANY GOVERNMENT AGENCY UNDER ANY RULES OR COURT OF LAW :**
No suspension/closure/prohibitory order has been issued by any government agency under any rules or court of law.

3.6 **IN CASE THE MINING PLAN/MINING PLAN IS SUBMITTED UNDER RULE 17(3) OF THE MCR 2016 FOR APPROVAL OF MODIFICATION, SPECIFY REASON AND JUSTIFICATION FOR MODIFICATION UNDER THESE RULES:**
The Mining Plan is being submitted under Rule 16 of MCR 2016.


R.C. BANSAL
Mining Engineer



PART – A

CHAPTER - I**1.0 GEOLOGY AND EXPLORATION :**

a) BRIEFLY DESCRIBE THE TOPOGRAPHY, DRAINAGE PATTERN, VEGETATION, CLIMATE, RAINFALL DATA OF THE AREA APPLIED/MINING LEASE AREA.

(i) **Topography** - The topography of the area is almost flat having general slope towards north east. The highest elevation of the lease area is 300m AMSL towards south west while the lowest elevation is 297m AMSL towards north east direction. The Mt. area is mostly stony waste land with massive outcrops of limestone at surface.

(ii) **Drainage Pattern** :- This is under drainage system of Magardaha Nala in east. This merges in tons river towards NNW at 625m distance. The general slope of the lease area is towards NE direction.

(iii) **Vegetation** - The area is mostly stony with outcrops of limestone. The core zone has scanty vegetation with mostly brushes and shrubs. The trees in the study area are of Mango, Jamun, Mahua, Sejha, Salai, Babool, Karanj, Tendu, Ashok, Banyan, Pipal, Khair, Teak, Palas, Eucalyptus, Shisham, Bel, Amla, Neem, Gulmohar, Sita Fal, Chirol, Kanji & Safed Siris.

(iv) **Climate & Rainfall data** - Refer Part A, Chapter 8.1(vi)

b) BRIEF DESCRIPTIONS OF REGIONAL GEOLOGY WITH REFERENCE TO LOCATION OF LEASE AREA:

Vindhyan group is exposed in a vast area. It stretches from Bihar in the east to Rajasthan in the west forming NNE-SSW syncline. Limestone of the lease area belongs to Bhander Group of Vindhyan Super Group. The Vindhyan super group consists of four main group named as follows :-

GROUP	FORMATION
BHANDER	UPPER BHANDER SANDSTONE
	SIRBOO SHALE
	NAGOD LIMESTONE
	GANURGARH SHALE
REWA	GOVINDGARH SANDSTONE
	JHIRI SHALE
	ASAN SANDSTONE
	PANNA SHALE
KAIMUR	DHANDRAUL SANDSTONE
	MANGESAR FORMATION
	BIJAYGARH SHALE
	GHAGHAR SANDSTONE
	SUSNAI BRECCIA
	SASARAM SANDSTONE
SEMRI	BAGHWAR SHALE
	ROHTASGARH LIMESTONE
	RAMPUR FORMATION
	SALKHAN LIMESTONE
	KOLDIHA SHALE
	DEONAR FORMATION
	KAJRAHAT LIMESTONE
	ARANGI LIMESTONE
	DEOLAND FORMATION



APPROVED

DESCRIPTION OF ROCK TYPE :-**(i) Ganurgarh shale :-**

Ganurgarh shale underlies Nagod limestone. It is soft, light brown, brownish grey in colour, well bedded and splits along the bedding planes.

(ii) Nagod Limestone :-

Nagod limestone overlies Ganurgarh shale. It is mostly outcropping in the area. It is fine to medium grained, light grey in colour. The outcrops are mainly light grey and on erosion the surface appears rough and corrugated. The strike is E-W with low 1^0 to 5^0 southerly dip.

(iii) Sirbo Shale :-

The Sirbo shale over-lies Nagod limestone. Though only a few meters of the basal part of the Sirbo shale is exposed in both Lilji and Pathna cracks, yet it is represented by a plethora of facies. It is very well developed and is seen along the sides of hill range in south & east of Maihar. It is exposed parallel to N.H. 7 in south from Maihar to Amarpatan in north of the Kymore range.

Overlying the sirbo shales are upper Bhander sandstone touching the hillocks on the south of N.H.- 7

(iv) Soil :-

The soil thickness in general extends upto a depth of 1.0 m. The detritus soil seem to have been derived from weathering of sandstone and shale of Kymore and Bhander ranges. This is sandy in nature.

c) DETAILED DESCRIPTION OF GEOLOGY OF THE LEASE AREA SUCH AS SHAPE AND SIZE OF THE MINERAL/ORE DEPOSIT, DISPOSITION VARIOUS LITHO-UNITS INDICATING STRUCTURAL FEATURES IF ANY ETC. (APPLICABLE FOR MINING PLAN FOR GRANT & RENEWAL AND NOT FOR SCHEME OF MINING/MODIFICATIONS IN THE APPROVED MINING PLAN/SCHEME OF MINING):

GENERAL DESCRIPTION OF GEOLOGY OF THE LEASE AREA IS AS UNDER -

The occurrence of limestone in applied area is stratigraphically controlled and is associated with Nagod limestone of Bhander group of Vindhyan super group. At places it is covered by 0.5m sandy soil in west. They have general S-80 0 E to N-80 0 W trend and dip of 1^0 to 3^0 varying between S 10 0 W to S 5 0 E.

The occurrence of limestone in the area is stromatolitic limestone. The limestone is thinly bedded. Inter beds of shale and reject stone is observed which is prominent within top 3m. The hardness is 3.5 to 4.0 and B.D. = 2.5.

LOCAL STRATIGRAPHY & LITHOUNITS

Recent	Alluvium	-	upto 0.5 m
Nagod limestone	Limestone	-	5m - 7m
Ganurgarh Shale	Shale	-	Contd.

In the tune with regional structure, the local structure is also horizontal to sub-horizontal rock sequence with strike direction of ENE - WSW and low southerly dip varying from 2^0 to 6^0 . At some places two sets of joints are also observed along dip and the strike direction. Vertical joints have usually development in to solution channels. The ML area throughout has massive outcrops of limestone at surface.

R.C. BANSAL
Mining Engineer



Solution Cavities :-

A striking feature of the area is the frequent occurrence of the solution cavities. The area is replete with solution cavities and sub-terranean canyons which are common in a limestone country. These cavities are invariably filled with waste material such as clay, sand, kanker & pieces of limestone cemented together by limonite.

The stromatolitic structure is obvious in surface exposures. The stromatolite heads are composed of concentric laminae. They appear as stacked semicircles on the vertical faces with radii increasing upward. The stromatolites are of columnar type with vertical stacked convex-upward hemispheroids having variable basal radius. These columns may show branching. The utility of upward-convexity of the stromatolite laminae is the determination of stratigraphic order, as well as the fact that stromatolite is an organo-sedimentary structure rather than an inorganic structure. Besides their upward convexity, the laminae often drop over the edge of the heads and appear to have been deposited at an angle exceeding the angle of repose of the sediment. Such features provide key to the organo-sedimentary origin of stromatolite.

The inter columnar areas are narrow and filled with sandstone and finer particles, a striking feature of the stromatolite column. On bedding plane surface, the stromatolite heads are elliptical with asymmetric accretion. The direction of greater accretion point down current (Hoffman - 1967). Pebbles size intraclasts locally occur in the cervices between the columns.

The faces possible represents an algal reef at the wave breaker zone where waves and currents impinged against the seafloor. Increased wave activity is reflected in the inclination of the stromatolite columns as well as by the underlying oolitic megaripples.

d) **(i) NAME OF PROSPECTING /EXPLORATION AGENCY :** The ML area was prospected by the lessee itself under supervision of its own Mining Engineer & Geologist.

e) DETAILS OF PROSPECTING/EXPLORATION ALREADY CARRIED OUT :

i) **Number of pits and trenches indicating dimensions, spacing etc along and across the strike/foliation with reference to geological plan.**

Up to date surface geological plan has been appended as plate-5 showing ultimate pit limit, exploration already carried out. There are 5 pits in the ML area. The size of the quarry is as under-

Quarry No.	Size of the Pit at the beginning of proposal period
Pit -1	1550 sqm x 3 m.
Pit-2	800 sqm x 2 m
Pit-3	1332 sqm x (1-1.5) m
Pit-4	3550 sqm x (1-1.5) m
Pit-5	3580 sqm x 1 m

The details of exploration already carried out including the evidence of mineral existence have been shown on Geological plan and Section plate-5 and 6.

ii) **Number of boreholes indicating type (Core/RC/DTH), diameter, spacing, inclination, Collar level, depth etc with standard borehole logs duly marking on geological plan/sections.**

The details of DTH bore holes in the lease area have been furnished here under.

Bore Hole No. / Type	Collar Level (m)	Lithology (m)	
		Soil	Limestone
BH 1 / DTH	290.65	0.05	5.95



R.C. BANSAL
Mining Engineer

Satri Limestone Mine

BH 2 / DTH	288.40		6.0
BH 3 / DTH	293.30	0.10	5.90
BH 4 / DTH	289.60		6.0

N.B. - All bore holes are vertical.

iii) **Details of samples analysis indicating type of sample (surface/sub-surface from pits /trenches/borehole etc) complete chemical analysis for entire strata for all radicals may be undertaken for selected samples from a NABL accredited Laboratory or Government laboratory or equivalent. Entire mineralized area may be analyzed meter wise with 10% of check samples. (At least for 10% of total samples may be analyzed in accordance to BIS and reports from NABL accredited /other government laboratory) -**
The sample was analysed with complete chemical analysis from a NABL accredited laboratory. The grade of limestone varies from CaO - 42% to 48%, SiO₂ - 6% to 10% & MgO - 2 % to 4%. The limestone is of cement grade.

iv) **Expenditure incurred in various prospecting operations:** About 1.0 Lakh was incurred in drilling, sampling & survey.

f) **THE SURFACE PLAN OF THE LEASE AREA MAY BE PREPARED ON A SCALE OF 1:1000 OR 1:2000 WITH CONTOUR INTERVAL OF MAXIMUM OF 10 M DEPENDING UPON THE TOPOGRAPHY AND SIZE OF THE AREA DULY MARKED BY GRID LINES SHOWING ALL FEATURES INDICATED UNDER RULE 32(1)(A) OF MCDR 2017 :**

The surface plan of the lease area has been prepared on a scale of 1:2000. The ML area is almost plain and hence contour at 1.0m interval with spot level duly marked by grid lines showing all features indicated under Rule 32(1) (a) of MCDR 2017 has been given.

g) **FOR PREPARATION OF GEOLOGICAL PLAN, SURFACE PLAN PREPARED ON A SCALE OF 1: 1000 OR 1: 2000 SCALE SPECIFIED UNDER PARA 1.0 (F) OF PART A OF THE FORMAT MAY BE TAKEN AS THE BASE PLAN. THE DETAILS OF EXPLORATION ALREADY CARRIED OUT ALONG WITH SUPPORTING DATA FOR EXISTENCE OF MINERAL, LOCATIONS PROPOSED EXPLORATION, VARIOUS LITHO-UNITS ALONG WITH STRUCTURAL FEATURES, MINERALIZED/ORE ZONE WITH GRADE VARIATION IF ANY MAY BE MARKED ON THE GEOLOGICAL PLAN ALONG WITH OTHER FEATURES INDICATED UNDER RULE 32 (1)(B) OF MCDR 2017:**

The geological plan (Plate -5) has been prepared based on the surface plan prepared on a scale of 1: 2000. The details of exploration already carried out along with various litho-units and structural features have been marked indicated under Rule 32 (1)(b) of MCDR 2017. The ML area has cement grade lime stone.

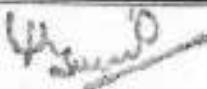
h) **GEOLOGICAL SECTIONS MAY BE PREPARED ON NATURAL SCALE OF GEOLOGICAL PLAN AT SUITABLE INTERVAL ACROSS THE LEASE AREA FROM BOUNDARY TO BOUNDARY:**

The Up-to-date geological sections have been appended on Plate-6.

i) **BROADLY INDICATE THE FUTURE PROGRAMME OF EXPLORATION WITH DUE JUSTIFICATION(DULY MARKING ON GEOLOGICAL PLAN YEAR WISE LOCATION IN DIFFERENT COLOURS) TAKING INTO CONSIDERATION THE FUTURE TENTATIVE EXCAVATION PROGRAMME PLANNED IN NEXT FIVE YEARS AS IN TABLE BELOW: -**

It is proposed to drill 10 number of bore holes during the proposal period in order to explore the area in compliance of Rule 12 (4) of MCDR 2017. The total expenses expected to incur is about Rs. 7 lakh in exploration. The depth of each bore hole is 30m. The bore hole will be of NX type.




R.C. BANSAL
Mining Engineer

Year	No. of bore holes (Core /RC/DTH)	Location	BH No.	Grid Interval	Total Meterage	No. of Pits, dimensions & volume	No. of Trenches, Dimensions and volume
2017 - 18	4- Core	N 2718000, E 497100 N 2718000, E 497300 N 2718000, E 497500 N 2717900, E 497000	PBH 1 PBH 2 PBH-3 PBH-4	200m	30 30 30 30	NA	NA
2018-19	4- Core	N 2717900, E 497200 N 2717900, E 497400 N 2717700, E 497000 N 2717700, E 497200	PBH-5 PBH-6 PBH-7 PBH-8	200m	30 30 30 30		
2019-20	2- Core	N 2717700, E 497400 N 2717700, E 497600	PBH-9 PBH-10	200m	30 30		

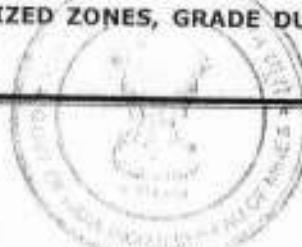
j) RESERVES AND RESOURCES AS PER UNFC WITH RESPECT TO THE THRESHOLD VALUE NOTIFIED BY IBM MAY BE FURNISHED IN A TABULAR FORM AS GIVEN BELOW: (AREA EXPLORED UNDER DIFFERENT LEVEL OF EXPLORATION MAY BE MARKED ON THE GEOLOGICAL PLAN AND UNFC CODE FOR AREA CONSIDERED FOR DIFFERENT CATEGORIES OF RESERVE/RESOURCES ESTIMATION MAY ALSO BE MARKED ON GEOLOGICAL CROSS SECTIONS). SUBMIT A FEASIBILITY/PRE-FEASIBILITY STUDY REPORT ALONG WITH FINANCIAL ANALYSIS FOR ECONOMIC VIABILITY OF THE DEPOSIT AS SPECIFIED UNDER THE UNFC FIELD GUIDELINES MAY BE INCORPORATED:

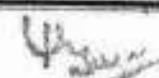
The threshold value of Limestone has been considered as CaO- 34% (min.) and MgO -4% (Max.) based on the notification by IBM. Reserves and Resources as per UNFC with respect to the threshold value notified by IBM has been furnished in tabular form given below. The area explored under different level of exploration has been marked on the geological plan and UNFC code for area considered for different categories of reserve/resources estimation has also been marked on geological cross sections. A pre-feasibility study report describing economic and feasibility axis along with financial analysis for economic viability of the deposit as specified under the UNFC field guidelines has been incorporated as Annexure-1. The deposit in the lease area is Bedded, Stratiform and tabular deposits of regular habit and hence 200m influence of bore hole and pits have been taken. The bore holes / pit are spaced at 200 - 400 m interval. The local structure is also horizontal to sub-horizontal rock sequence with strike direction of ENE - WSW and low southerly dip varying from 2° to 6°.

Categorisation of total mineral resources and mineral reserve:-

The total mineral resources have been put under 332 categories while the mineral reserve has been put under 122 category as per the UNF classification.

k) FURNISH DETAILED CALCULATION OF RESERVES/RESOURCES SECTION WISE (WHEN THE MINE IS FULLY MECHANIZED AND DEPOSIT IS OF COMPLEX NATURE WITH VARIATION OF SIZE , SHAPE OF MINERALIZED ZONES, GRADE DUE TO INTRUSION WITHIN ORE ZONE




R.C. BANSAL
Mining Engineer

ETC, AN ATTEMPT MAY BE MADE TO ESTIMATE RESERVES/RESOURCES BY SLICE PLAN METHOD). IN CASE OF DEPOSITS WHERE UNDERGROUND MINING IS PROPOSED, RESERVE/RESOURCES MAY BE ESTIMATED BY LEVEL PLAN METHOD, AS APPLICABLE, AS PER THE PROPOSED MINING PARAMETERS:

Method of estimation of mineral reserves:-

The total mineral resources and reserves have been calculated by cross section area method. In this method the cross section area of the ore body has been multiplied by the influence of the section line to give the volume. This in turn has been multiplied by the bulk density and incidence to find out the tonnage. The mineral reserve thereafter has been calculated by depleting remaining resources from total mineral resources.

Mineral Resources :- Indicated Mineral Resource (332)-

Section Line	Sectional Area (sqm)	Influence (m)	Volume (m ³)	Mineral Resource in tonnes
	A	B	C = A x B	D = C x B.D. (2.5) x 0.80 (Incidence)
A - A'	1330	131	174230	348460
B - B'	2824	100	282400	564800
C - C'	3420	100	342000	684000
D - D'	3086	100	308600	617200
E - E'	3066	100	306600	613200
F - F'	3534	100	353400	706800
G - G'	2976	100	297600	595200
H - H'	1949	108	210492	420984
				4550644

N.B. - The ore depleted has been considered along the section lines drawn at regular interval.

Mineral reserve and Remaining Resources:-

Remaining resources = Total mineral resource - Mineral reserve

Tentative cumulative excavation done in the lease area = 10500 cum

Mineral extracted from the lease area = 18028

Remaining Resources (Pre Feasibility Mineral Resource - 222)

The following are the Pre Feasibility Mineral Resource under UNFC classification 222 after deduction of all statutory barriers as per MMR 1961, MCR 2016 and MCDR 2017.

Deduction = Length x width x Av. Thickness x B.D. x % recovery

Deduction	
Due to 7.5 m barrier as per MMR 1961 and public works	2625m x 7.5m x 6.0m x 2.50 x 0.80 = 236250 t.
Pre Feasibility Mineral Resource (222)	236250 t.

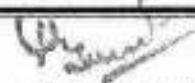
Hence, Probable Mineral Reserve = 4550644 t. - 236250 t. = 4314394 t.

1) MINERAL RESERVES/RESOURCES:

Mineral Resources: The Mineral resources has been estimated on the basis of level of exploration, and the threshold value as declared by IBM.

The resources and Reserves within the lease has been arrived based on the results of the Prefeasibility study and economic evaluation of deposit as elaborated in the Prefeasibility report appended as Annexure -1 and based on various factors such as:




R.C. BANSAL
Mining Engineer

SIGNERED/ APPROVED

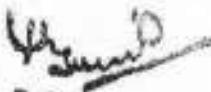
a) Mining method, Recovery factor, mining losses, processing loss etc.
 b) Cut off grade, Ultimate pit depth proposed
 c) Mineral/ ore blocked dues to benches and 7.5m barrier.

UNFC	Area explored	Area Un explored	Barren land
G1	Nil	Nil	Nil
G2	38.129 ha.	Nil	Nil
G3	Nil	Nil	Nil

Level of Exploration	Resources in million tons	Grade
G1 - Detailed exploration	Nil	The Limestone is of cement grade.
G2 - General Exploration	4.550644	
G3 - Prospecting	Nil	Nil
G4- Reconnaissance	Nil	Nil

MINERAL RESERVE AS PER UNFC CLASSIFICATION:-

	UNFC Code	Quantity in million Tons	Grade
A. Total Mineral Reserve			
Probable mineral Reserve	122	4.314394	The Limestone is of cement grade.
B. Total Remaining Resources			
Prefeasibility mineral resource	222	0.236250	
Total Reserves + Resources		4.550644	


 R.C. BANSAL
 Mining Engineer



STAMPED/ APPROVED

CHAPTER - II

2.0 MINING

A) OPEN CAST MINING:

a) BRIEFLY DESCRIBE THE EXISTING AS WELL AS PROPOSED METHOD FOR EXCAVATION WITH ALL DESIGN PARAMETERS INDICATING ON PLANS /SECTIONS.

(I) Existing method of mining:- The mine is closed since Jan 1997. The detail of production carried during the operation of mine is as under.

Production and dispatch from 12.10.1981 to 31.01.1997				
FY	Opening Stock MT	Production MT	Dispatch MT	Closing stock MT
1981-82 to 1986-87	0	0	0	0
1987-88	0	6700	6352	348
1988-89	348	5650	5372	626
1989-90	626	2240	1672	1194
1990-91	1194	1258	1972	480
1991-92	480	250	480	250
1992-93	250	250	200	300
1993-94	300	200	200	300
1994-95	300	240	200	340
1995-96	340	840	1040	140
1996-97	140	400	378	162
Total		18028		

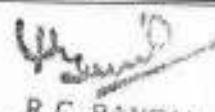
(II) Proposed method of mining :- Opencast mechanised method of mining will be adopted in the lease area in future. All operation of mining such as development, winning of ore, loading and transport will be carried out by utilising HEMM. Drilling and blasting will be done of hole dia 48mm and depth upto 3m. While planning the proposal for the ensuing five years period, economic depth of the pit for minimum degradation of land has been considered. In order to prevent haphazard excavation of pits, the development has been proposed at one place in southern outcropping portion. It is proposed to advance the working towards east & north. No labour camp is proposed within the lease area. The transport of men is not applicable. No tubs, haulage rope, conveyor or locomotive will be used. The OB and ore will be excavated and loaded mechanically on dumpers.

Bench height has been proposed upto 6.0m in ore body and hard strata for convenience, systematic mining and nature of the deposit. However sub benching will be done to facilitate drilling when needed. The limestone will be used as sweetener and hence deep hole drilling and blasting of larger dia has not been proposed which will ultimately lead to more generation of fines. The cut off grade of limestone has been taken as 34% CaO and 4.5% MgO. However to the possible extent, suitable blending of ROM limestone will be done in the best interest of mineral conservation.

Year 2017-18 - It is proposed to develop the quarry in 800 sqm area. No development will be carried out as there is no OB and mineral is outcropping at surface. The working will be done in between UTM co-ordinates N 2717538 to N 2717578 m and E 497275 to E 497296m. The production will be carried out from one bench of average height 6.0m. The width of the bench will follow the quarry floor. The ramp will be extended to floor of the quarry at a gradient of 1 in 16 from south.

Year 2018-19 - It is proposed to develop the quarry in 1200 sqm area. The working will be done in between UTM co-ordinates N 2717538 to N 2717588 m and E 497275 to E 497315m. No



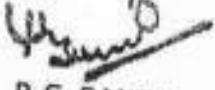

R.C. BANSAL
Mining Engineer

development will be carried out as there is no OB and mineral is outcropping at surface. The production will be carried out from one bench of average height 6.0m. The width of the bench will follow the quarry floor. The ramp will be extended to floor of the quarry at a gradient of 1 in 16 from south. The area excavated at the end of year will be 2000 sqm.

Year 2019-20 - It is proposed to develop the quarry in 8000 sqm area. The working will be done in between UTM co-ordinates N 2717538 to N 2717660 m and E 497275 to E 497360m. No development will be carried out as there is no OB and mineral is outcropping at surface. The production will be carried out from one bench of average height 6.0m. The width of the bench will follow the quarry floor. The ramp will be extended to floor of the quarry at a gradient of 1 in 16 from south. The area excavated at the end of year will be 10000 sqm.

Year 2020-21 - It is proposed to develop the quarry in 10000 sqm area. The working will be done in between UTM co-ordinates N 2717538 to N 2717699 m and E 497275 to E 497408m. No development will be carried out as there is no OB and mineral is outcropping at surface. The production will be carried out from one bench of average height 6.0m. The width of the bench will follow the quarry floor. The ramp will be extended to floor of the quarry at a gradient of 1 in 16 from south. The area excavated at the end of year will be 20000 sqm.

Year 2021-22 - It is proposed to develop the quarry in 10000 sqm area. The working will be done in between UTM co-ordinates N 2717538 to N 2717740 m and E 497275 to E 497441m. No development will be carried out as there is no OB and mineral is outcropping at surface. The production will be carried out from one bench of average height 6.0m. The width of the bench will follow the quarry floor. The ramp will be extended to floor of the quarry at a gradient of 1 in 16 from south. The area excavated at the end of year will be 30000 sqm


R.C. BANSAL
Mining Engineer



DISAGREE/ APPROVED

(III) Design parameters for year wise development/production:-

Yrs.	Bench	B.I. Limestone	Soil (cum)	DB/ Waste (cum)	Production (cum)
17-18	Area Affected (sqm)	800	-	960	3840
	Av. Face Height (m)	6			
	Volume (cum)	4800			
	Prodn. (cum)	3840			
	Soil (cum)	0			
	OB/waste (cum)	960			
18-19	Av. Reduced level (m)	294	1440	5760	
	Area Affected (sqm)	1200			
	Av. Face Height (m)	6			
	Volume (cum)	7200			
	Prodn. (cum)	5760			
	Soil (cum)	0			
19-20	OB/waste (cum)	1440	9600	38400	
	Av. Reduced level (m)	294			
	Area Affected (sqm)	8000			
	Av. Face Height (m)	6			
	Volume (cum)	48000			
	Prodn. (cum)	38400			
20-21	Soil (cum)	0	12000	12000	
	OB/waste (cum)	9600			
	Av. Reduced level (m)	294			
	Area Affected (sqm)	10000			
	Av. Face Height (m)	6			
	Volume (cum)	60000			
21-22	Prodn. (cum)	48000			
	Soil (cum)	0			
	OB/waste (cum)	12000			
	Av. Reduced level (m)	294			
	Total			36000	144000

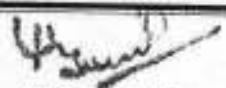
Recovery = 80% of Limestone has been taken of total volume of excavation within ore zone. Rest is inter burden/waste.

b) INDICATE 'YEAR-WISE TENTATIVE EXCAVATION IN CUBIC METERS INDICATING DEVELOPMENT, ROM, PIT WISE AS IN TABLE BELOW.

(I) In situ Tentative Excavation

Year	Pit No	Total tentative Excavation (Cum)	Top Soil (cum)	OB/ SB/ IB (cum)	ROM		Production in tonnes * Limestone	Mineral Reject	ROM/ Waste ratio
					Limestone (cum)	Mineral Reject (cum)			
2017-18	1	4800	0	960	3840	Nil	9600	Nil	1:0.25
2018-19	1	7200	0	1440	5760	Nil	14400	Nil	1:0.25
2019-20	1	48000	0	9600	38400	Nil	96000	Nil	1:0.25
2020-21	1	60000	0	12000	48000	Nil	120000	Nil	1:0.25
2021-22	1	60000	0	12000	48000	Nil	120000	Nil	1:0.25
Total		180000	0	36000	144000	Nil	360000	Nil	1:0.25

* Tentative tonnage of the Limestone has been taken as 2.50 as these data are variable and may be established on time series.


R.C. BANSAL
Mining Engineer

(II) Dump re handling (for the purpose of recovery of mineral):

Estimated available material (Cum) – No mineralised dump is present in the ML area which will be re-handled for the purpose of recovery of mineral.

Dump Identification/ no	Yearwise Handling (Cum)	Estimated recovery of saleable material (Cum) *	Reject (Cum)
Nil	NA	NA	NA

c) ENCLOSURE INDIVIDUAL YEAR WISE DEVELOPMENT PLANS AND SECTIONS SHOWING PIT LAYOUTS, DUMPS, STACKS OF MINERAL REJECT, IF ANY, ETC IN CASE OF 'A' CATEGORY MINES. COMPOSITE DEVELOPMENT PLANS SHOWING PIT LAYOUTS, DUMPS, STACKS OF MINERAL REJECT, IF ANY, ETC. AND YEAR WISE SECTIONS IN CASE OF 'B' CATEGORY MINES.

This is "A" category mine and hence Individual year wise pit layout plans and sections has been appended.

d) DESCRIBE BRIEFLY GIVING SALIENT FEATURES OF THE PROPOSED METHOD OF WORKING INDICATING CATEGORY OF MINE.

(I) This is category "A" mine. The development in will be carried out by deployment of excavator, rock breaker, loading of OB will be done by loaders and transport will be done by HEMM. Drilling and blasting will be carried out of dia up to 48 mm and depth upto 3m in mineral. Various mining activities such as drilling, blasting, loading and transportation will be so conducted as to ensure maximum mineral conservation and minimum environmental degradation. While planning, quality parameter of the deposit has been taken care of so as to have maximum blending ratio. Blasting will be carried out for heaving effect and fragmentation to the deposit. Blasted Ore will be loaded in to the dumpers by loaders means and will be transported to the destination cement plant. Secondary blasting in large boulders may be done by jack hammer. However it will be avoided and rock breaker will be used. Winning of ore and handling of waste rock will be done by excavators of 1.2 cum. capacity & dumpers of 35 t. to 16 t. capacity. The main activities involved will be:-

- (i) Development by removal of overburden.
- (ii) Drilling
- (iii) Blasting
- (iv) Sorting & Sizing
- (v) Loading
- (vi) Transportation

Systematic working will be done by formation of benches as per M.M.R. 1961. All applicable Rules of MMR 1961, Mines Act-1952, MCR-2016, MCDR-2017 will be followed for safe, scientific & systematic working to follow the principles of safety & conservation of human health & mineral.

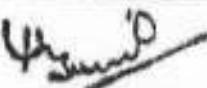
No labour camp is proposed within the lease area. The transport of men is not applicable. No tubs, haulage rope, conveyor or locomotive will be used.

(II) Drilling: - Drilling will be done as per parameters given below.

Spacing	2.40-2.50m	1.0m
Burden	2.0-2.20 m	0.80m
Depth of hole	2.80-3.0 m	1.5m
Dia of hole	48mm	33 mm



33/2018/ APPROVED


R.C. BANSAL
Mining Engineer

(III) **Blasting:-** Blasting will be done as per details here under: -(i) **Broad blasting parameter:-**

Spacing	2.40-2.50m	1.0m
Burden	2.0-2.20 m	0.80m
Depth of hole	2.80-3.0 m	1.5m
Charge per hole	7.0 kg	0.45 kg
Powder Factor (t/kg)	5-6	6-7
Dia of hole	48mm	33 mm

(ii) **Type of explosive to be used:-**

(a) Powergel, Detonating fuse, Safety Fuse and Ordinary Detonator

(iii) **Storage of explosive** - No storage of explosive is done at mine site presently. The pre-calculated quantity of explosive is taken from the authorised dealer and transported in permitted carrier on the scheduled day for blasting and will be used on the very same day. The storage of explosives will be done in accordance with the Indian Explosives Act, 1984 and the Rules made there under. It is proposed to have explosive license and install portable magazine at mine site of capacity 100 kg.(iv) **Precaution to be observed during drilling & blasting:-**

Following precautions will be taken during blasting period.

- Preparation of charge and charging and stemming of holes will be done by a qualified blaster.
- Before a shot is charged, stemmed or fired, sufficient warnings by signal is given over the entire area falling within the danger zone and ensure that all persons within such area have taken proper shelter.
- During blasting, controlled blasting will be done to prevent flying fragments which may cause injury to local inhabitants within danger zone.
- Proper inspection after shot firing will be done by the blaster.
- The number of shots which exploded shall be counted by the blaster to assess misfire.
- All necessary precautions as enumerated under 106(2)(b) of MMR 1961 will be followed.

(IV) **Extent of mechanization:-**

Proposed Working days/annum	=	275 days
Targeted production	=	1,20,000 TPA or 437 TPD
Total handling of Mine Waste	=	30,000 t./annum or 110 TPD
Hence total handling	=	150,000 TPA or 547 TPD

1) Drilling machines:

Type	Nos.	Dia of hole (mm.)	Size / capacity	Make	Motive Power	H.P.
(i) Atlas Copco Compressor	2		110 CFM	Atlas Copco	Diesel	110
(ii) Jack Hammer	4	33			Compressed air	
(iii) Rock Drill with drifter 48 mm	2	48	200 CFM	Wagon drill		



R.C. BANSAL
Mining Engineer

2). Loading equipment: -

All loading of OB/waste will be done mechanically by following machine
Requirement of loading equipment

For arriving at the rate of production per hour in case of the mine under reference, following formula is applicable -

$$Q = \frac{C \times F \times T \times BD \times Bf}{Tc}$$

Q = Per hour handling of excavator cum loader in tones
 C = Bucket in cubic meters = 1.20 cum.
 F = Fill factor = 0.90
 T = Time in second = 3600 secs.
 Bf = Overall Efficiency = 0.60
 BD = 1.4 (Blasted mass)
 Tc = Time cycle per pass at 90^0 swing = 45 secs.
 Thus $Q = \frac{1.20 \times 0.9 \times 3600 \times 1.4 \times 0.60}{45} = 72$ t. per hour

Per excavator cum loader per day output

$$\begin{aligned}
 &= \text{hour capacity} \times \text{effective hours in operational days} \\
 &= 72 \text{ t. per hour} \times 8 \text{ hours} = 576 \text{ t.}
 \end{aligned}$$

Therefore number of excavator cum loader required

$$\begin{aligned}
 &= \frac{\text{Total handling required}}{\text{Handling by excavator cum loader}} = \frac{547 \text{ t./day}}{576 \text{ t.}} = \text{say 1.}
 \end{aligned}$$

Type	Nos.	Size / capacity	Make	Motive Power	H.P.
L & T PC- 200/ Hyd. Excavator	1	1.20 cum	L & T/ Tata	Diesel	210

3. Haulage and transport equipments:-**(a) Haulage Within the leasehold area:**

Haulage of 110 t. of O.B. to the surface stacking/backfilling site will be done mechanically. The distance is within 0.50 km. total distance.

Details of hauling/transport equipment:

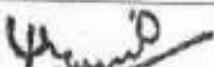
- The effective time per dumper to dumping site/stacking considering up and down journey inclusive of positioning, loading time and dumping is 30 minutes. Hence, per hour trip = 2
- Heaped capacity of the dumpers = 10 tones
- Corrected mass capacity and fill factor = 0.8

Hence hauling capacity of 1 dumper per day in 8 hrs.

$$= 10 \text{ t.} \times 0.8 \times 2 \times 8 = 128 \text{ t.}$$

Hence dumpers required = 110 t./128 t. = Say 4 No. considering 40% stand by.

Type	Nos.	Size / capacity	Make	Motive Power	H.P.
Dumpers	1	10 t.	Tata	Diesel	110



R.C. BANSAL

Mining Engineer

Page 20



(b) **Transport from mines head to the destination:-**

Describe briefly the transport system (please specify)

- Ore transported by: - own trucks/hired trucks
- Main destination to which ore is transported (giving to and fro distance)

Details of hauling/transport equipment:

The mineral will be transported to the destination cement plant by trucks hired from local transporters.

(i) The effective time per dumper to destination considering up and down journey inclusive of positioning, loading time and dumping is 2 hrs. Hence, per day trip = 4

(ii) Heaped capacity of the dumpers = 16 tones

Hence hauling capacity of 1 dumper per day

$$= 16 \text{ t.} \times 4 \text{ trips} = 64 \text{ t.}$$

Hence no. of dumpers required = $437 \text{ t.} / 64 \text{ t.} = \text{Say 7.}$

Type	Nos.	Size / capacity	Make	Motive Power	H.P.
Dumpers	7	16 t.	Tata	Diesel	210

4. **Miscellaneous:-**

The following additional equipments/machineries will be required for allied operations related to the mining of the deposit not covered earlier. The mine equipment will be procured from the other mine as and when required.

Type	Nos.	Size/ Capacity	Make	Motive Power	H.P.
1. Water Tanker with water Sprinkler	1	5000 ltr.	Hindustan	Diesel	95
2. Jeep	1				

e) DESCRIBE BRIEFLY THE LAYOUT OF MINE WORKINGS, PIT ROAD LAYOUT, THE LAYOUT OF FACES AND SITES FOR DISPOSAL OF OVERBURDEN/WASTE ALONG WITH GROUND PREPARATION PRIOR TO DISPOSAL OF WASTE, REJECT ETC. A REFERENCE TO THE PLANS AND SECTIONS MAY BE GIVEN. UPL OR ULTIMATE SIZE OF THE PIT IS TO BE SHOWN FOR IDENTIFICATION OF THE SUITABLE DUMPING SITE.

Layout of the quarry faces:-

The layout of the mine working has been designed considering, the following aspects.

- (a) The shape and size of the ML area.
- (b) The quarry and present exposures within the lease area.
- (c) Planning for earliest backfilling of the ML area.

It is proposed to develop the quarry towards south. Minimum degradation of land has been proposed. The faces will be laid along N-S and E-W direction. The haul road will be made from south side leading to quarry bottom. Planning has been made to ensure proper blending of ore to have feed grade. The layout of the quarry on year wise basis showing the present working, position of benches at the end of the year has been shown on yearwise pit layout plan & section and disposal sites of OB and waste have been shown on environment management plan.

Sites for disposal of overburden/waste:- The OB /waste generated will be stacked during the proposal period.

R. C. BANSAL
Mining Engineer

F) CONCEPTUAL MINE PLANNING UPTO THE END OF LEASE PERIOD TAKING INTO CONSIDERATION THE PRESENT AVAILABLE RESERVES AND RESOURCES DESCRIBING THE EXCAVATION, RECOVERY OF ROM, DISPOSAL OF WASTE, BACKFILLING OF VOIDS, RECLAMATION & REHABILITATION SHOWING ON A PLAN WITH FEW RELEVANT SECTIONS.

(I) Conceptual Mine Development upto lease period:-

(i) The present available resources and reserves are as under -

	UNFC Code	Quantity in million Tons
A. Total Mineral Reserve		
Probable mineral Reserve	122	4.314394
B. Total Remaining Resources		
Prefeasibility mineral resource	222	0.236250
Total Reserves + Resources		4.550644

(ii) The proposed excavation of OB & ore during the ensuing proposal period taking in to consideration the recovery is given below. In the present mine there is no mineral reject and hence the ROM is production/saleable ore.

Total tentative Excavation (Cum)	Top Soil (cum)	OB/SB/ IB (cum)	ROM		Production in tonnes
			Ore (cum)	Mineral Reject (cum)	
180000	0	36000	144000	Nil	360000

(iii) **Life of the mine** – The expected rate of production is expected to be around 0.50 million t. per annum from 6th year onwards when the mine will be fully developed. The anticipated life of mine will be as follows -

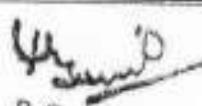
$$\begin{aligned}
 \text{Total production during 1st 5 years} &= 360000 \text{ t} \\
 \text{Therefore, Life of mine at proposed production of 0.50 million TPA from 6th year} \\
 &= 5 \text{ years} + \frac{(4314394 \text{ t.} - 360000 \text{ t.})}{0.50 \text{ million TPA}} \\
 &= 13 \text{ Years based on probable reserves (122 category).}
 \end{aligned}$$

(iv) **Excavation details** – The proposed method of mining will be by opencast mechanised method confined within the ultimate pit limit. No drainage system (nalla, rivulet)/ infrastructure (road, building, plant and structure) will require diversion from mining area for safety of the working and Road.

The development and the ultimate pit limit has been designed keeping in view 7.5m barrier as per Rule 111 of MMR 1961 and mineral reserves/ mineable area established so far. Benches in ore will be of ultimate height 6m and width not less than the height.

The area to be developed i.e. ultimate mineable area will be 36.16 hecta, based on the present level of exploration under G2 category. The ultimate depth of mining based on present exploration level is 6m from general ground level which may exceed to 15m based on regional geology and that observed in nearby areas. The ultimate pit slope will be 45 degree. The stripping ratio will be




R.C. BANSAL
Mining Engineer

1.0.25. It is proposed to mine about 3954394 t. of limestone @ 0.50 million t per annum beyond the 1st 5 years and for this 50,000 cum per annum and total 5,00,000 cum of OB/mine waste will be generated beyond the 1st 5 years period till the conceptual period.

(II) Conceptual Waste Dump Management upto lease period:

- (i) **Built up of dump at the end of 5 year proposal period/ conceptual stage** – Dumping has been proposed of OB/ mine waste for five years. It is proposed to do dumping over 1.0 ha. upto 5.0 meter height of OB/Waste. Refer Part A, Chapter 4 of the MPLN.
- (ii) **Quantum of waste dumping at the end of 5 year proposal period/ conceptual stage** – During the ensuing Mining Plan period, 36000 cum of OB/Waste will be generated. The OB/waste generated will be stacked for five years of the proposal period.
- (iii) **Conceptual dump design** – Dumping in form of preparation of protective bund has been proposed at conceptual stage all along the proposed water reservoir. No external dump will remain.
- (iv) **Protective measures proposed** – Garland bund will be prepared all around the proposed water reservoir.

(III) Conceptual reclamation and rehabilitation of the worked out area –

- (i) **Backfilling of voids –**

During Proposal Period – No backfilling will be carried out.

At lease period end – Backfilling of void will be carried out simultaneously. Backfilling will be done in 8.10 ha mined out area. The height of the backfilling will be upto ground level.

- (ii) **Reclamation & rehabilitation –**

1. **During Proposal Period** – No reclamation is proposed.

2. **At Conceptual Stage** – Reclamation will be carried out by simultaneous backfilling during conceptual stage. About 8.10 ha area will be backfilled and reclaimed during the conceptual period. The height of the backfilling will be up to the ground level. The soil to the thickness of 0.20m will spread at top, leveling will be done and rehabilitation by afforestation of native species such as Karanj, Neem, Mango, Shisham, Kachnar, Gamhar, Jamun, Mahua, etc. Conceptual rehabilitation by plantation will be carried out in 8.10 ha area. About 8100 number of trees will be planted in reclaimed area during conceptual period. Area reclaimed by water harvesting will be 28.06 ha. Rehabilitation of mined out land by making water reservoir will be by developing for Pisciculture, irrigation use and picnic spot etc.



31-11-2013 / APPROVED


R.C. BANSAL
Mining Engineer

Chapter – III**3. MINE DRAINAGE**

a) **Minimum and maximum depth of water table based on observations from nearby wells and water bodies.**

The ground water table in the lease area varies from 30m to 40m, below general ground level of 297m. The water table varies from 257m to 267m R.L. The water table goes down to 40m during dry season and rises upto 30m during rainy season. This is based on the observations from nearby wells and bore wells.

b) **Indicate maximum and minimum depth of Workings.**

The working is proposed upto 291m RL at the end of proposal period. The maximum depth of working will be 6m bgl during the proposal period.

c) **Quantity and quality of water likely to be encountered, the pumping arrangements and places where the mine water is finally proposed to be discharged.**

The working will be done above ground water table. However the quantity due to peak sudden rainfall on any day may be 20 cum. The water will be clear devoid of any toxic contamination. The total solids may be on higher side due to suspended as well as dissolved solids. The total hardness is also on higher side in view of limestone bearing area.

The applicant will provide following pumps to discharge mine water,

10 H.P. Diesel Pump-1 Nos./Electric Pump – 1 Nos.

Suction = 152.4 mm

Delivery = 150mm

Total head = 30m

Pumping capacity = 20 Lt. per second per pump

The pumped out water will be utilized for sprinkling of water on haul roads, drilling and other dust suppression measures. The water will not be discharged into any surface water source directly. The mine sump will be prepared towards the bottom of the working quarry i.e. away from working face. The size will be 30m x 20m x (2-3)m during the proposal period.

d) **Describe regional and local drainage pattern. Also indicate annual rain fall, catchments area, and likely quantity of rain water to flow through the lease area, arrangement for arresting solid wash off etc.**

The general slope is towards north - east direction. The main drainage of the area is through Magardaha Nala situated in east side of the applied area which discharges into Tons River situated in north side at 0.62 kms distance.

The annual average total rainfall recorded in the region was found to be 1142 mm. The ML area falls under the catchment area of Tons river. The ML area is likely to receive about 4,00,000 cum of rain fall. The surface runoff will be about 10-15% of the total received rain fall. In order to arrest wash off from solid waste into the water courses, backfilling with plantation has been proposed.



R.C. BANSAL
Mining Engineer



CHAPTER - IV

4.0 STACKING OF MINERAL REJECT/SUB GRADE MATERIAL & DISPOSAL OF WASTE :

a) Indicate briefly the nature and quantity of top soil, overburden / waste and Mineral Reject to be disposed off.

The mine waste is in the form of following:-

(1) **Top soil:-** There is no top soil at site to be worked during proposal period. The soil in the ML area at proposed site for excavation during proposal period is residual soil.

(2) **OB and Mine waste:-** In the limestone ore body inter bedded shale, reject stone and clay pockets etc is present. The quantity to be generated during next proposal period is given below.

Year	Top Soil (cum)		OB/Mine waste		Mineral Rejects (cum)			
	Reuse/ spreading	Storage	Stacking	Backfilling	Backfilling	Storage	Blending	Beneficiation
2017-18	-	-	960	-	-	-	-	-
2018-19	-	-	1440	-	-	-	-	-
2019-20	-	-	9600	-	-	-	-	-
2020-21	-	-	12000	-	-	-	-	-
2021-22	-	-	12000	-	-	-	-	-
Total	-	-	36000	-	-	-	-	-

b) The proposed dumping ground within the lease area be proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling is proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints & justification.

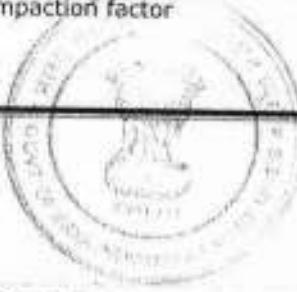
The whole ML area is mineralized. The temporary stacking of OB/waste will be done in south west direction. The sides will be sloped at an angle of repose i.e. less than 30^0 from the horizontal. The site has been chosen such that will not interfere with mine workings in future.

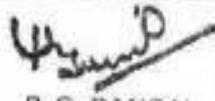
c) Attach a note indicating the manner of disposal of waste, configuration and sequence of year wise build up of dumps along with the proposals for protective measures.

OB/Waste Disposal

A Year	B OB/waste generation during the Year	C OB/waste dump handling during the year	D Total OB/waste Handled	E Effective Volume = (SF x CF) x D = 1.4 x 0.8 x D	F Quantity Disposed of on (Cum)	
					Cum	Stacking
2017-18	960	Nil	960	1075	1075	1075
2018-19	1440	Nil	1440	1613	1613	1613
2019-20	9600	Nil	9600	10752	10752	10752
2020-21	12000	Nil	12000	13440	13440	13440
2021-22	12000	Nil	12000	13440	13440	13440
Total	36000	Nil	36000	40320	40320	40320

SF = Swelling factor, CF = Compaction factor




R.C. BANSAL
Mining Engineer

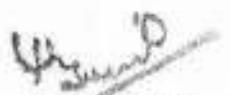
Original/Affidavit

Stacking configuration

A Year	B Size of Dump at the begining of the year			Cumulative Quantity Dumped cum	Eff. Cumulative Quantity Dumped	D Size of Dump at the end of the year		
	Soli	Bottom area M ²	Top area M ²	Av. height (m)		Top area M ²	Bottom M ²	
2017-18	-				1075	1075	690	480
2018-19	690	400	2.0		1613	2688	1200	600
2019-20	1200	600	3.0		10752	13440	3550	1850
2020-21	3550	1850	5.0		13440	26880	5300	2400
2021-22	5300	2400	7.0		13440	40320	6200	1875

The manner of loading will be mechanically. The dump will be unloaded mechanically by dumpers. The sides will be sloped at an angle of repose.

Precautions for confinement of dumps to prevent pollution of surface water bodies/ courses: - The lease area is almost plain with general slope towards north-east. Garland drain of size 2m x 1.5m and bund of size 5m x 1.5m has been proposed towards the sloping side to prevent siltation of low lying areas and in rush of water into the mine.



R.C. BANSAL
Mining Engineer



APPROVED/ APPROVED

CHAPTER - V**5.0 USE OF MINERAL AND MINERAL REJECT**

a) DESCRIBE BRIEFLY THE REQUIREMENT OF END-USE INDUSTRY SPECIFICALLY IN TERMS OF PHYSICAL AND CHEMICAL COMPOSITION.

The saleable Limestone will be supplied to cement plants as per specification of commercial quality and physical size.

Cement Plants	CaO	=	44% Min
	MgO	=	4 % Max
	SiO ₂	=	10 % Max
	Size	=	-800 mm

b) GIVE BRIEF REQUIREMENT OF INTERMEDIATE INDUSTRIES INVOLVED IN UP-GRADATION OF MINERAL BEFORE ITS END-USE.

The Limestone of the lease area is not intended for supply to any intermediate industry for up-gradation or any beneficiation.

c) GIVE DETAIL REQUIREMENTS FOR OTHER INDUSTRIES, CAPTIVE CONSUMPTION, EXPORT, ASSOCIATED INDUSTRIAL USE ETC.

The mineral is not intended to supply to any other industry, captive consumption, export or for any other associated industrial use.

d) INDICATE PRECISE PHYSICAL AND CHEMICAL SPECIFICATION STIPULATED BY BUYERS.

The specification imposed by the buyers are as under -

Cement Plants	CaO	=	44% Min
	MgO	=	4 % Max
	SiO ₂	=	10 % Max
	Size	=	-800 mm

e) GIVE DETAILS OF PROCESSES ADOPTED TO UPGRADE THE ROM TO SUIT THE USER REQUIREMENTS.

No processing of limestone is proposed to be adopted to upgrade the ROM in the lease area.

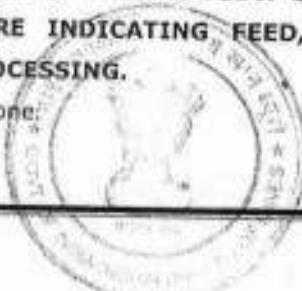
CHAPTER - VI**6.0 PROCESSING OF ROM AND MINERAL REJECT**

a) IF PROCESSING / BENEFICIATION OF THE ROM OR MINERAL REJECT IS PLANNED TO BE CONDUCTED, BRIEFLY DESCRIBE NATURE OF PROCESSING/ BENEFICIATION. THIS MAY INDICATE SIZE AND GRADE OF FEED MATERIAL AND CONCENTRATE (FINISHED MARKETABLE PRODUCT), RECOVERY ETC.

No processing of mineral will be done in the mine. Only simple sizing and sorting will be done manually.

b) GIVE A MATERIAL BALANCE CHART WITH A FLOW SHEET OR SCHEMATIC DIAGRAM OF THE PROCESSING PROCEDURE INDICATING FEED, PRODUCT, RECOVERY, AND ITS GRADE AT EACH STAGE OF PROCESSING.

No processing of mineral will be done.



R.C. BANSAL
Mining Engineer

c) EXPLAIN THE DISPOSAL METHOD FOR TAILINGS OR REJECT FROM THE PROCESSING PLANT.

No tailing or reject will be generated. The fines generated will be sold to cement plants.

d) QUANTITY AND QUALITY OF TAILINGS /REJECT PROPOSED TO BE DISPOSED, SIZE AND CAPACITY OF TAILING POND, TOXIC EFFECT OF SUCH TAILINGS, IF ANY, WITH PROCESS ADOPTED TO NEUTRALIZE ANY SUCH EFFECT BEFORE THEIR DISPOSAL AND DEALING OF EXCESS WATER FROM THE TAILINGS DAM.

No processing of mineral will be done at mine. No tailing or reject will be generated.

e) SPECIFY QUANTITY AND TYPE OF CHEMICALS IF ANY TO BE USED IN THE PROCESSING PLANT.

No chemical will be used.

f) SPECIFY QUANTITY AND TYPE OF CHEMICALS TO BE STORED ON SITE / PLANT.

No processing is proposed. No chemical will be stored.

g) INDICATE QUANTITY (CUM PER DAY) OF WATER REQUIRED FOR MINING AND PROCESSING AND SOURCES OF SUPPLY OF WATER, DISPOSAL OF WATER AND EXTENT OF RECYCLING. WATER BALANCE CHART MAY BE GIVEN.

The Quantity of Daily water requirement with water balance chart is as under -

Activity	Water requirement, m ³ /d	Source
Dust suppression	5.0 (additional 1 cum of domestic waste)	Tube well and mine sump.
Green Belt	2.00	
Domestic	3.0 (1 cum of domestic waste water)	
Total	10.0	

No processing is proposed. No water will be disposed and it will be a zero discharge mine.

CHAPTER - VII

7.0 OTHER- a) SITE SERVICES :

1. **Office and stores:** - Office and stores will be provided as per Rules.
2. **First Aid :-** Specified first Aid box will be maintained at the site office and the rest shelter as per Mines Act-1952. The mines manager will be the qualified person to render first aid to the injured and will be the holder of a valid first aid certificate.
3. Various site services such as rest shelter, creche, drinking water facilities, Urinals, First Aid and office etc. will be provided as per provisions of Mines Act-1952 and Mines Rule-1955. No labour hutments are proposed because local labour will be employed.

(b) EMPLOYMENT POTENTIAL :-

	Proposed
Mining Engineer	1
Geologist	1
Mines Foreman	1
Mining Mate / blaster	1
Skilled	10
Semi Skilled	20
Unskilled	25



APPROVED


R.C. BANSAL
Mining Engineer

CHAPTER - VIII**8.0 PROGRESSIVE MINE CLOSURE PLAN UNDER RULE 23 OF MCDR 2017 -****8.1 ENVIRONMENT BASE LINE INFORMATION:****(i) Existing land use pattern-**

Degradation Type	Forest Land (Ha.)	Agriculture Land (Ha.)	Grassland (Ha.)	Waste land (Ha.)	other
Pits /Quarries	1.08	-	-	-	-
Dumps/Stack	-	-	-	-	-
Infrastructure inclusive of office	-	-	-	-	-
Area occupied by roads	0.10	-	-	-	-
Water bodies like tank /river/nalla	-	-	-	-	-
Town ship/Hutment	-	-	-	-	-
Plantation	-	-	-	-	-
Processing plant	-	-	-	-	-
Others (Drain & Bund etc.)	-	-	-	-	-
Workshop	-	-	-	-	-
Undisturbed	36.949	-	-	-	-
Total	38.129	-	-	-	-

(ii) Water regime – This is under drainage system of Magardaha Nala in east. This merges in tons river towards NNW at 625m distance. The general slope of the lease area is towards NE direction.

(iii) Quality of air– The study area represents mostly rural environment. The source of air pollution in the buffer zone is fugitive dust emission due to mining, cement plant of M/s Prism Cement, domestic fuel burning and plying of vehicles. The ambient air quality values were within permissible limits.

Suspended Particulate Matter (PM₁₀)

Suspended particulate matter in general terms is the particulate matter in suspension in ambient air. It includes dust, smoke etc. In general some of the important sources of suspended particulate matter are mines. The following sources of suspended particulate matter in the study area are identified:

- Emission due to HEMM & vehicular movement
- Dust generation from ground or other mining operations

The value of PM₁₀ were compared with the National Ambient Air Quality Standards (NAAQS) and found that recorded value is within the applicable limits i.e., 100 $\mu\text{g}/\text{m}^3$ for PM₁₀ in rural areas.



R.C. BANSAL
Mining Engineer



Sulphur Dioxide (SO₂)

Sulphur dioxide gas is an inorganic gaseous pollutant. Sulphur dioxide emissions are expected to be emitted wherever combustion of any fuel containing Sulphur takes place. The Sulphur in the fuel will combine with oxygen to form Sulphur dioxide. The following sources of Sulphur dioxide in the study area are identified:

- Emissions from domestic/consumption of fuel (coal, diesel, etc)
- Emissions from DG sets used by mining activity and local residents

Sulphur dioxide in atmosphere is significant because of its toxicity; Sulphur dioxide is capable of producing illness and lung injury. Further it can combine with water in the air to form toxic acid aerosols that can corrode metal surfaces, fabrics and the leaves of plants. Sulphur dioxide is an irritant to the eyes and respiratory system. Excessive exposure to Sulphur dioxide causes bronchial asthma and other breathing related diseases as it affects the lungs.

The 24 hourly average values of SO₂ were compared with the National Ambient Air Quality Standards (NAAQS) and it was found that recorded values are below the applicable limits 80 $\mu\text{g}/\text{m}^3$ for rural areas. Refer AAQM Report appended as Annexure.

Oxides of Nitrogen (NO_x)

The important sources of oxides of Nitrogen are from utilities and auto exhaust due to vehicular movement in mine lease area. The following sources of oxides of nitrogen in the study area are identified.

- Emissions from field burning of coal.
- Emissions from vehicular movements in the study area.

Oxides of Nitrogen in the presence of sunlight will undergo reactions with a number of organic compounds to produce all the effects associated with photochemical smog. NO_x has inherent ability to produce deleterious effects by themselves like toxicity. It causes asphyxiation when its concentration is great enough to reduce the normal oxygen supply from the air.

The 24 hourly average values of NO₂ were compared with the National Ambient Air Quality Standards (NAAQS) and it was found that all recorded values are below the applicable limits 80 $\mu\text{g}/\text{m}^3$ for rural areas.

Carbon monoxide (CO)

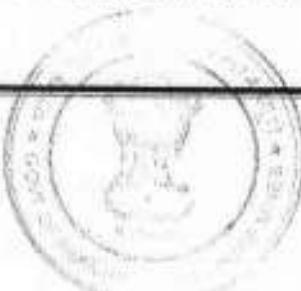
Carbon monoxide (CO) is a colorless, odorless, and tasteless gas. It may temporarily accumulate at harmful levels, especially in calm weather during winter and early spring, when fuel combustion reaches a peak and carbon monoxide is chemically most stable due to the low temperatures.

The following source of carbon monoxide in the study area are identified are automobile emissions

Carbon monoxide enters the blood stream by combining with hemoglobin, the substance that carries oxygen to the cells. This combination occurs 200 times more readily with carbon monoxide than with oxygen, reducing the amount of oxygen distributed throughout the body by the blood stream. Carbon monoxide adversely impacts health in many ways:

- It affects the central nervous system at relatively low concentrations.
- It weakens heart contractions, lowering the volume of blood distributed to various parts of the body.
- It significantly reduces a healthy person's ability to perform manual tasks, such as working, jogging and walking.

The value of CO is BDL. The 24 hourly average values of CO were compared with the National



Ambient Air Quality Standards (NAAQS) and it was found that recorded value is below the applicable limits 4mg/m³ for rural areas.

(iv) Ambient noise level- Noise is one of the most undesirable and unwanted by-products of our modern life style. It may not seem as insidious or harmful as air and water pollutants but it affects human health and well-being and can contribute to deterioration of human well-being in general and can cause neurological disturbances and physiological damage to the hearing mechanism in particular. It is therefore, necessary to measure both the quality as well as the quantity of noise in and around the proposed site.

SOURCE OF NOISE

The main sources of noise in the study area are domestic activities, mining activity, crushers and vehicular traffic. The main occupation of the villagers in the study area is mining, agriculture and business. The Cement plant of M/s Prism Cement is within 10.0 kms buffer zone.

NOISE LEVEL IN THE STUDY AREA

The values of noise observed in some of the areas are primarily owing to vehicular traffic and other anthropogenic activities. It is observed that the noise values recorded were well within the prescribed Ambient Air Quality Standards by the MoEF.

ENVIRONMENTAL MONITORING SCHEDULE

Monitoring schedule of environmental components like Air, Water and noise will be monitored as per norms laid down under MCDR 2017 and MoEF norms. Following stations have been selected for monitoring the environmental components:

Air Pollution	Near quarry
Noise Pollution	At Mine boundary
	At 10 m and 100 m from HEMM
	At 100 m from blast site

Water Pollution	Quarry Sump
-----------------	-------------

Air Pollution Monitoring

Ambient air quality monitoring will be carried out as per State and Central Pollution Control Board's guidelines by the following methods:

1. Particulate Matter (PM₁₀ & PM_{2.5}) : Gravimetric
2. Sulphur Dioxide (SO₂) : Improved West & Gaeke method
3. Nitrogen Oxides (Nox) : Modified Jacob & Hochheiser (Na- Arsenite)

Noise Level Monitoring

Monitoring of noise level at mine site and at work environment will be carried out as suggested by concerned Regional Officer of Madhya Pradesh State Pollution Control Board.

Water Quality Monitoring: Water environment will be assessed periodically for both surface water and ground water. As per IS 10500 (Drinking Water Quality Standard). Ground water level and quality on seasonal basis will be assessed in the open / dug wells to evaluate the impacts of ongoing operations. Water levels will also be monitored on seasonal basis in surrounding wells.


R.C. BANSAL
Mining Engineer



Original/Revised

SUMMARY OF MONITORING PROGRAMME

S.No	Parameters	Schedule / Frequency of Monitoring	Locations
1	Ambient air quality monitoring in and around the mine for PM10, PM2.5, SO ₂ , NO _x & CO.	Three eight hourly samples over 24 hours during each season except rainy season of a year or as per the guidelines of CPCB/CECB	1 in core zone
2	Ambient noise levels	Twice in a year for couple of years and then once a year.	Core zone
3	Water quality monitoring	Once in year	Buffer zone Seasonal Nulla and sump within or around the mine lease
4	Socio-economic condition	Once in five years of local population, physical survey.	Within Buffer zone
5	Occupation Health & Safety for workers Health check-up for villagers	Annually Quarterly	Within the ML area Adopted villages in the study area

A **Environmental Management Cell** has been made under the Mining Engineer and a consultant who report directly to the owner. Periodical monitoring of environment parameters are also carried out as per Circular 3/92 of CCOM and MoEF.

(v) **Flora** – The trees in the study area are of Mango, Jamun, Mahua, Sejha, Salai, Babool, Karanj, Tendu, Ashok, Banyan, Pipal, Khair, Teek, Palas, Eucalyptus, Shisham, Bel, Amla, Neem, Gulmohar, Sita Fal, Chirol, Kanji & Safed Siris.

(vi) **Climatic Condition – Rainfall**: The annual average total rainfall recorded in the region was found to be 1142.1 mm.

Temperature: The average maximum temperature was recorded in the month of June at 47.8°C and the minimum average temperature was 4.3°C in January.

Relative Humidity: The maximum Relative Humidity was found during the monsoon season with the month of August recording the highest average at 86%.

Wind Speed: The maximum average wind speed was found to be 7.9 kmph in the month of June.

(vii) **Human settlements** – There are few hutments encroached in forest land within core zone. Village Satri is at 1.70 Km in west and Bandarkha at 0.80 kms in NE. Other prominent villages within 5.0 kms is Sajjanpur at 2 km south, Ghumchihal, Khamariha, Semra, Katra, Hinauta, Jamori and Mankahri-etc. The major vocation of the people in the locality is mine labour, cultivation and cattle breeding.

(viii) **Public buildings, places of worship and monuments** - The Public building such as School, Panchayt Bhawan, Anganbadli centre and Temple exists within the buffer zone. There are no other places and monuments in the applied area. NH 75 is at 2 km in south.

(ix) **Indicate any sanctuary is located in the vicinity of leasehold** – There is no sanctuary located in the vicinity of leasehold or within 10.0 kms of buffer zone.




R.C. BANSAL
Mining Engineer

8.2 IMPACT ASSESSMENT:

i) Land area indicating the area likely to be degraded due to quarrying, dumping, roads, workshop, processing plant, tailing pond/dam, township etc.

Cumulative land degradation:

Sr. No.	Heads	At present (ha)	At the end of 5 years-(ha.)
1.	Pits (broken area)	1.08	4.08
2.	Dumps/Ore Stack	0	0.62
3.	Road	0.10	0.50
4.	Green belt(7.5m buffer zone)	0	1.969
5.	Infrastructure	0	0.50
6.	Others(Protective bund & Drain)	0	0.50
TOTAL		1.18	8.169

Due to mining there will be changes as under.

Direct changes are in : Land degradation by mining and resultant external dumps which conflicts with land use for agriculture/forestry.

Destruction: Destruction of soil & vegetation, changes in geological structure and relief.

The landscape of this mine will be disturbed by the proposed mining and dumping in the area. The original plain topography will be characterized by excavated depressions/voids and elevated portions by dumping of OB/Waste. The mining will affect the core-zone but would marginally affect the buffer zone or over all view of the area.

(ii) Air quality:-

The mining operations contribute towards air pollution in following ways :

Addition of gaseous pollutants to the atmosphere

Emission of particulates

The air borne particulate matter i.e. dust (SPM) will be the major air pollutant. Apart from fine sized solid particles resulting during blasting and surface mining, particulate matter will be carried in the atmosphere due to wind action over mineral and waste dumps. The movement of HEMM, vehicles and transport of minerals by road will also add to the problem. It is also produced due to transport activities in surrounding area. Air pollution will lead to some respiratory problems to persons living in highly dust prone areas. Plants growth is also affected by dust deposition on leaf. Blasting generates NOx, but will be instantaneous and intermittent. HEMM will be emitting SPM, NOx and hydrocarbon. Dumpers will have negligible impact as the rate of emission of above pollutants in this is very less. Based on the predicted post project concentration of various pollutants, it is inferred that the area is unlikely to be affected significantly due to proposed working. Air quality monitoring will be done at one location in core zone and two locations in the buffer zone for once per season except monsoon.

(iii) Water quality :-

The only source of water is ground water through dug wells and tube wells. The parameters of water quality in the area are within permissible limits by CPCB/MoEF. Only total hardness and TDS is more than acceptable limit but is within permissible limit. There is no toxic substance in the water. There is no adverse effect on water quality since the over burden or ore has no toxic contamination. The



R.G. BANSAL
Mining Engineer

water table will not be lowered due to mining above water table. Water available in the village is potable. No pumping of water will be done in any surface body directly. There is no toxic contamination in O.B. or ore. Ground water level and quality on seasonal basis will be assessed in the open/dug wells to evaluate the impacts of ongoing operations. Water levels will also be monitored on seasonal basis in surrounding wells.

(iv) Noise level:-

There may be noise pollution due to drilling, blasting, movement of HEMM and trucks. The noise levels are dependent upon the deployment of mining machinery and heavy-duty vehicles in any mine. Exposures of noise level above threshold limit value has a detrimental effect on the health of the workers. The ill effect of high level noise are both psychological & biochemical. Continued exposure may result in annoyance, fatigue, temporary damage to hearing, permanent loss of hearing, hypertension and high blood cholesterol and other adverse biochemical effects. There may be noise pollution due to movement of HEMM. However this may not exceed the threshold value. The cabin of the HEMM will be noise proof. The noise level may exceed the permissible limit due to blasting but will be momentarily.

Anticipated Noise Levels From Mining Equipments

Type	Name / Capacity	Anticipated Noise Level [in dB(A)] at 1m away from the source
Drilling Machine	Compressor and Drill	95
Excavator and Transportation Vehicles	Dumper/Tippers (10t)	85

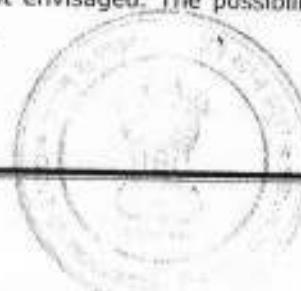
The anticipated noise level at ML boundary from nearest pit boundary will be less than 75 dB (A), which is less than the prescribed limits for industrial area. There will be no impact on the base line noise level at the nearest village. It is estimated that on the existing road, additional traffic load due to this project will have no impact as the road network is sufficient to transport the mineral. Hence the impact on total traffic load in future will be very less, on the existing road. Ambient noise levels will also be monitored once in a season in the buffer zone to evaluate the noise levels in surrounding community.

(v) Vibration level (due to blasting) :-

Ground vibration may occur due to the blasting operations. The other effects may be fly rocks, Air blast, Noise, dust and fumes. The blasting generates seismic waves in the ground which may cause significant damage to human and property in the area. When an explosive charge is fired in a hole, stress waves propagate radially in all directions and cause the rock particles to oscillate. This oscillation is felt as ground vibration. The ground vibration is measured as the peak particle velocity (PPV). To minimize the effect of blasting controlled blasting with optimum charge and proper stemming of holes will be done.

(vi) Water regime:-

(a) Surface Water :- There is no tank, water reservoir or any nalla in the core zone. There are seasonal water courses and rainwater catchment ponds in the vicinity of the mining area towards east and west. Hence, impacts on surface water drainage may be envisaged. The waste-water generation in the mining process is not envisaged. The possibility of surface water contamination due to wash off of dumps is envisaged.


R.C. BANSAL
Mining Engineer

(b) **Ground water** :- There is no major ground water body in the core zone. There are bore wells situated for drinking purpose. The ground water table in the lease area varies from 30m to 40m, below general ground level. The mining will be done above ground water table. The rain water stored in mine pit will act as artificial ground water source and full fill the need of use in mining and allied activities. This infers that no adverse impacts are there on the local ground water regime due to mining operations. The water requirement at the site, mainly for sprinkling on haul road will be met by the sump with in the pit. Water for drinking & service utilities will be met by bore well dug by the management.

vii) **Acid mine drainage** - Acid mine drainage is produced wherever a mine of any type, impermeable formations interacts with the water table, aquifer, perched water body or where surface water finds its way into a mine in terrains where sulphides(Particularly pyrites) are present in the ore or country rock. Among objectionable features of the acid mine drainage are low pH and high levels of sulphides, iron and total dissolved solid. These deplete the oxygen levels in water, increase the toxicity by rendering heavy metals soluble, and create corrosion problems. There is no sulphide in the country rock, hence problems of acid mine drainage is irrelevant in this mine.

viii) **Surface subsidence** - No underground mining is proposed and hence no surface subsidence is expected.

(ix) **Socio-Economic:-**

Human settlement - The ML area is mostly forest land and there are few hutments illegally encroached in the core-zone. There would be rehabilitation and resettlement of population. The household in the nearby buffer zone will not be displaced and no rehabilitation will be required in buffer zone. The impacts will be positive on the populations by way of generation of employment, increase in literacy and educational facility and health care facilities.

Social and demographic profile :- The initiation in mining operations will substantially increase gross economic production and infrastructure facilities. Therefore, Socio-economic prospects are likely to improve to some extent. Also increase in mining operations will result in some increase in direct and indirect employment and consequently the population in near by villages. The primary census abstracts regarding population has been given in detail under human settlement. The density of population in buffer zone is about 500 persons/ sq.km.

The population in the buffer zone is given below :-

Schedule tribes population	-	19.80 %
Schedule caste population	-	14.60 %
Literate and educated persons	-	59.80 %
Total workers	-	41.00 %
Total non workers	-	59.00 %
Cultivator	-	32.20 %
Agriculture labour	-	31.90 %
House hold industry	-	7.10 %
Other workers	-	28.70 %

Mining activity will be confined to remote area. Within the core zone as well as nearby buffer zone, tribal population is dominant. The literacy rate is poor and the basic employment is through agricultural labours. Severe un-employment exists and the region is basically backward poor area.

Standard of living is very poor. The traffic intensity will not have much impact within buffer zone as the movement of Dumpers will be within the lease hold of lessee. The proposed mining operations will substantially increase gross economic production and infrastructure facilities. Therefore, Socio-economic prospects are likely to improve to some extent. Also mining operations will result in increase in direct and indirect employment and consequently the population in near by villages. The literacy rate will increase in view of better economic conditions anticipated of the people due to increase in employment opportunities by the starting of this project. Better literacy means better social status and thereby improved standard of living. Thus this project will have a positive impact.

Occupational health and safety :-

External hazards involve injuries to human cattle and plants, which could occur during mining operations. These injuries could be due to flying stones during blasting and also when ore transport vehicle loses control, internal hazards occur due to unhygienic work conditions or carelessness of the workers involved in mining operations. Internal hazards often show their affect after a long time. The mining operation is unlikely to cause any adverse impact due to the above factors in buffer zone. The mine management will provide proper health care facilities near the mine area. This will be provided to the surrounding villages in case of emergencies. All measures to provide a safe environment will be taken by the management. Hence adverse impact on health & safety of the workers and local population is not expected. No accident or injury due to fly rock is expected in the mine or due to this mine.

(x) **Historical monuments:** - There are no places of historical monuments in the applied area.

8.3 PROGRESSIVE RECLAMATION PLAN :

8.3.1. Mined-Out Land:

Mining effect environment in various ways including depletion of land cover, vegetation, removal of soil, change of landscape & deposition of the solid waste product thus causing imbalance in the landscape and increasing air, water and soil pollution. Land use in mining areas consists of mainly forestry, pasture and agriculture.

The mined out land which will be fully exhausted by virtue of excavation up to full depth of mineralisation will be simultaneously/progressively reclaimed by backfilling of OB & waste generated during the course of mining. The level of backfilling will be near to the original topography/ or by creation of water body. The reclaimed area will be rehabilitated by way of afforestation. The water body will be rehabilitated to Pisciculture or other aquatic use by re-contouring the pit slope with possible beautification at conceptual stage.



REVIEWED AND APPROVED


R.C. BANSAL
Mining Consultant

Salri Limestone Mine

Reclamation (back filling) Details:

Year	Broken area at the beginning of yr (sqm)	Cum broken area at the end of yr (sqm)	Mined out Area at the beginning of yr (sqm)	Cum. Mined out Area at the end of yr (sqm)	Area reclaimed by back filling at the beginning of yr out of G (sqm)	Area reclaimed by back filling during the yr (sqm)	Cum reclaimed back filling by the end of yr (sqm)	Area
a	b	c	d	e	f	g	h=f+g	
2017-18	10800	11600	Nil	Nil	Nil	Nil	Nil	
2018-19	11600	12800	Nil	Nil	Nil	Nil	Nil	
2019-20	12800	20800	Nil	Nil	Nil	Nil	Nil	
2020-21	20800	30800	Nil	Nil	Nil	Nil	Nil	
2021-22	30800	40800	Nil	Nil	Nil	Nil	Nil	
Conceptual Period	40800	361600	Nil	361600	Nil	81000	81000	

Rehabilitation Details:

Year	Balance Un Rehabilitated mined out area at the beginning of yr	Mined out Area during the yr	Total Un Rehabilitated mined out area	Rehabilitation during the yr By			Total Rehabilitation	Balance Un rehabilitated mined out area at the end of yr		
				e						
				x	y	z				
				Plantation on BF area	Making water reservoir	Bench/ slope plantation				
2017-18	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
2018-19	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
2019-20	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
2020-21	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
2021-22	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
Conceptual Period	Nil	361600	361600	81000	280600	Nil	361600	Nil		

8.3.2 Topsoil Management : There is no top soil at the proposed site to be worked during the proposal period.

8.3.3 Tailings Dam Management : No Chemical/wet mineral processing will be carried out in the lease area. Hence no tailing will be created.

8.3.4 Acid mine drainage : There is no sulphide in the country rock, hence problems of acid drainage is irrelevant in this mine.

8.3.5 Surface subsidence : No underground mining is proposed and hence no surface subsidence is expected.



R.C. BANSAL
Mining Engineer

RECEIVED ON 10/01/2018

PROTECTIVE MEASURES FOR RECLAMATION AND REHABILITATION WORKS ON YEAR WISE BASIS, NO RECLAMATION (OR REHABILITATION) MEASURE WAS PROPOSED DURING THE PHCP PERIOD.

ITEM	DETAILS	PROPOSED					ACTUAL					REMARK		
		1st	2nd	3rd	4th	5th	1st	2nd	3rd	4th	5th	6th	7th	8th
Dump Management	Year	-	-	-	-	-	-	-	-	-	-	-	-	-
	Area afforested (ha)	-	-	-	-	-	-	-	-	-	-	-	-	-
	No of saplings planted	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cumulative no of plants	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cost including watch and care during the year	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of worked out benches	Area available for rehabilitation (ha)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Afforestation done (ha)	-	-	-	-	-	-	-	-	-	-	-	-	-
	No of saplings planted in the year	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cumulative no of plants	-	-	-	-	-	-	-	-	-	-	-	-	-
	Any other method of rehabilitation (specify)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cost including watch and care during the year	-	-	-	-	-	-	-	-	-	-	-	-	-
Reclamation and Rehabilitation by backfilling	Void available for Backfilling (L x B x D) pit wise / slope wise	-	-	-	-	-	-	-	-	-	-	-	-	-
	Void filled by waste / tailings	-	-	-	-	-	-	-	-	-	-	-	-	-
	Afforestation on the backfilled area	-	-	-	-	-	-	-	-	-	-	-	-	-
	Rehabilitation by making water reservoir	-	-	-	-	-	-	-	-	-	-	-	-	-
	Any other means (specify)	-	-	-	-	-	-	-	-	-	-	-	-	-
Rehabilitation of waste land within lease	Area available (ha)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Area rehabilitated	-	-	-	-	-	-	-	-	-	-	-	-	-
	Method of rehabilitation	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (specify)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-



R.C. BANSAL
Mining Engineer

8.4 DISASTER MANAGEMENT AND RISK ASSESSMENT:-

Preliminary Risk assessment is based on the philosophy that "Prevention is better than cure". Mining operations may be carried to the utmost safety but there is always some element of danger or risk in it. No disaster is envisaged. Only minor accidents may take place. The applied area has gentle slope towards north east. No perennial source of surface water is present. Blasting in OB & ore body has been proposed. The mining operations will be carried out under supervision of statutory personnel's as per provisions of MCR 2016, MCDR 2017, Mines Rules 1955, Mines Act 1952 & strictly following safety aspects as per MMR 1961 monitored by Directorate General of Mines safety.

The lease area does not come under active seismic zone. Land slide, subsidence is not expected in view of opencast mining. No river is near the applied area and hence flood is not expected. Since opencast mining has been proposed, problems related with underground mines are not applicable. In case of eventuality, first aid will be given by the competent authority initially to the injured person. The competent person / Mines manager or Mining Engineer will give notice of accident as per Rule-23 of Mines Act-1952. The persons / competent authorities named above will be responsible for co-ordinations between management and District authorities / DGMS etc. Regarding general safety as per Rule-181 of MMR 1961, "No person shall negligently or will fully do anything likely to endanger life or limb in the mine, or negligently or will fully omit to do anything necessary for the safety of the mine or of the persons employed there in". The workers will be provided with protective foot wear and safety helmets.

DISASTER MANAGEMENT CELL:-

In order to avert any danger to the mine site at the end of life of mine a disaster management cell headed by local authority District Collector will be constituted. Police department health authorities, including doctor, ambulances and so on will have a vital part to play following a disaster along with the mine management, and they will be an integral part of the disaster management plan.

8.5 CARE AND MAINTENANCE DURING TEMPORARY DISCONTINUANCE :-

If the mine will be discontinued temporarily for more than 120 days due to court order or due to statutory requirements or any other unforeseen circumstances expected to re-open in near future, notice will be given 30 days before the date of such discontinuance to the concerned authorities. During discontinuance period safety arrangement and fencing will be provided to avoid the entry of unauthorized persons and accessibility to the mine from the surface. The mine will be properly guarded by employing security guards.




R.C. BANSAL
Mining Engineer

8.6 FINANCIAL ASSURANCE:

The Financial assurance has been submitted in form of Bank Guarantee of Rs 2.0 lakh. This is a 'A' category mine and hence the total amount of BG as per Rule 27 of Mineral Conservation and Development Rules, 2017 will be = 6.20 ha x Rs. 3 lakh/ha = Rs. 18.60 lakh. The difference amount of rupees 16.60 lakh (18.60 - 2.0 lakh) will be deposited as per rule 27 of Mineral Conservation and Development Rules, 2017 notified vide GSR 169(E) dated 27th February, 2017.

Table indicating the break-up of areas in the Mining Lease for calculation of Financial Assurance

Sl. No.	Head	Area put on use at start of Mining (ha)	Additional requirement during Plan period (ha)	Total Area (ha)	Area considered as fully reclaimed & rehabilitated (ha)	Net area considered for calculation (ha)
(a)	(b)	(c)	(d)	(c+d)=e	(f)	(e - f =g)
1	Area under mining	1.08	3.0	4.08	-	4.08
2	Storage for top soil	-	-	-	-	-
3	Waste dump site	-	0.62	0.62	-	0.62
4	Mineral storage	-	-	-	-	-
5	Infrastructure Workshop administrative building, crusher etc.	-	0.50	0.50	-	0.50
6	Roads	0.10	0.40	0.50	-	0.50
7	Railways	-	-	-	-	-
8	Tailing pond	-	-	-	-	-
9	Effluent Treatment Plant	-	-	-	-	-
10	Mineral Separation Plant	-	-	-	RECOGNIZED ENGINEER OF MINES R. C. BANSAL INDIAN BUREAU OF MINES जबलपुर/ JABALPUR	-
11	Township area	-	-	-	-	-
12	Others (specify)					
	1. Drain & Bund	-	0.50	0.50	-	0.50
	Grand Total	1.18	5.02	6.20	-	6.20

11 May, 2017


R.C. BANSAL
Mining Engineer

PART – B

CHAPTER - IX

CERTIFICATES / UNDERTAKINGS/ CONSENTS

CONSENT LETTER/ UNDERTAKING/ CERTIFICATE FROM THE APPLICANT :

(3) The **Mining Plan** in respect of **Satri Limestone Mine** over an area of **38.129 ha.**, in Village **Satri, P.O. Sajjanpur, District - Satna, Madhya Pradesh**, under Rule **16 of Minerals (Other than Atomic and Hydro carbons Energy Minerals) Concession Rules, 2016** has been prepared by **qualified Person Sri R.C. Bansal, Mining Engineer, C/o. M/s Balram Singh Associates Pvt. Ltd.** This is to request the Regional Controller of Mines, Indian Bureau of Mines, **Jabalpur**, to make any further correspondence regarding any correction of the **Modifications in Mining Plan** with the said recognized person at their address below :-

Sri R.C. Bansal
C/o Balram Singh Associates Pvt. Ltd.
Chopra Colony, P.O.- Maihar
District : Satna (M.P.) Pin: 485771
e-mail-bsapl.myr@gmail.com

We hereby undertake that all modifications / updating as made in the said **Mining Plan** by the said qualified person be deemed to have been made with our knowledge and consent and shall be acceptable on us and binding in all respects.

(2) It is certified that the CCOM Circular No-2/2010 will be implemented and complied with when an authorized agency is approved by the State Government.

This is to undertake that the Lease boundary points as indicated on the surface plan are marked in the field and the precise lease area forms the basis for preparation of SOM.

(3) It is certified that the Progressive Mine Closure plan of **Satri Limestone Mine** of **Shri Shrawan Kumar Pathak** over an area of **38.129 ha.** complies with all statutory Rules, Regulations, Orders made by the Central or State Government, Statutory organization, Court etc which have been taken into consideration and wherever any specific permission is required the lessee will approach the concerned authorities.

I also give an undertaking to the effect that all the measures proposed in Closure Plan will be implemented in time bound manner as proposed.

The information furnished in the **Progressive Mine Closure plan** is true and correct to the best of our knowledge and records.

(4) "The provisions of **Mines Act, Rules and Regulations** made there under have been observed in the **Mining Plan** over an area of **38.129 ha.** in **Satna** district in **M.P.** state belonging to **Satri Limestone Mine**, and where specific permissions are required, the applicant will approach the **D.G.M.S.** Further, standards prescribed by **D.G.M.S.** in respect of **miners' health** will be strictly implemented".

Place : **Satna**

Date : **03.05.2017**

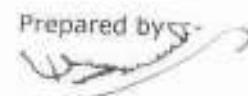
Signature of the Owner

SHRAWAN KUMAR PATHAK
(Owner)

CERTIFICATE FROM RQP

The provisions of the **Mineral Conservation and Development Rules 2017** have been observed in the preparation of the **Mining Plan** for **Satri Limestone Mine** over an area of **38.129 ha.**, of **Shri Shrawan Kumar Pathak**, in village - **Satri** , P.O. **Sajjanpur**, District **Satna** of **Madhya Pradesh** State and whenever specific permissions are required, the applicant will approach the concerned authorities of **Indian Bureau of Mines**. The information furnished in the Mining Plan is true and correct to the best of our knowledge.

Date: 03.05.2017

Prepared by

R.C. Bansal
(Mining Engineer)

10. List of the Plans and Sections -

LIST OF PLAN AND SECTION

1.	KEY PLAN	Plate - 1
2.	KHASRA PLAN	Plate - 2
3.	LOCATION MAP	Plate - 3
4.	SURFACE PLAN	Plate - 4
5.	SURFACE GEOLOGICAL PLAN	Plate - 5
6.	SURFACE GEOLOGICAL SECTION	Plate - 6
7.	YEAR 2017-18 PIT LAYOUT PLAN & SECTION	Plate - 7
8.	YEAR 2018-19 PIT LAYOUT PLAN & SECTION	Plate - 8
9.	YEAR 2019-20 PIT LAYOUT PLAN & SECTION	Plate - 9
10.	YEAR 2020-21 PIT LAYOUT PLAN & SECTION	Plate - 10
11.	YEAR 2021-22 PIT LAYOUT PLAN & SECTION	Plate - 11
12.	ENVIRONMENT PLAN	Plate - 12
13.	CONCEPTUAL PLAN & SECTION	Plate - 13
14.	FINANCIAL AREA ASSURANCE PLAN	Plate - 14
15.	RECLAMATION PLAN	Plate - 15



 R.C. RANDAL
 Mining Engineer

** List of documents Annexed:-

1.	Pre Feasibility Report	47-50
2.	Copy of grant Order & M.I. Deed	57-84
3.	State Govt. Letter	85-91
4.	Photo ID & Address proof of Owner	92
5.	Photographs	93-94
6.	Certificate of Person preparing Mining Plan	95-103
7.	Chemical Analysis Report	104
8.	Affidavit	105-107
9.	Bank Guarantee	108-116
10.	Copy of Renewal Application	117-127



R.C. BANSAL
Mining Engineer

ANNEXURE – 1

PRE FEASIBILITY REPORT

PRE FEASIBILITY REPORT
OF
SATRI LIMESTONE MINE

M. L. Area – 38.129 ha.
M. L. Area in Forest if any – 37.0 ha
Total M. L. Area – 38.129 ha.

In Village – SATRI
Tehsil – Rampur Baghelan, District- Satna
State – Madhya Pradesh

For the Mineral – Limestone

Submitted to
Indian Bureau of Mines

Lessee –
Shri Shravan Kumar Pathak
Chayanakyapuri,
P.O. & District – Satna (M.P.)
Pin Code – 485001, Phone – 07672-225292



R.C. BANSAL
Mining Engineer

1.0 **GEOLOGICAL STUDY REPORT**

Sr. No.	Contents	Explanation
1.	Title & Ownership	<p>(a) For Name & Address of lessee, Refer Chapter 2.0(a) of the Mining Plan.</p> <p>(b) The area was previously sanctioned under mining lease for 20 years period vide State Govt. order no. - 599/7481/12, dated 19.01.1973 and 3641/1 dated 01.08.1981 (Annexure 2). The mining lease deed in Form 'K' was executed on 12.10.81 for period of 20 years upto 11.10.2001 (Annexure 2). The application for renewal of mining lease was filed before the State Govt. The lease area being in forest land, the State Govt. has given the in principle consent subject to approval under Section 2 of FCA 1980. Also the State Govt. vide its letter no. F-3-104/95/12 dated 14-03-2008 i.e. in principle consent has ordered to submit the approved mining plan as it is mandatory for approval vide application (Form-A) of FCA 1980 (Annexure-3). The lease area is also deemed to be extended for 50 years period from date of first grant i.e. 12.10.1981 to 11.10.2031 under MM (D&R) Amendment Act 2015.</p> <p>(c) For details of exploration agency, Refer Part -A, 1.0 (e) of the Mining Plan.</p>
2.	Details of the area	(a) For details of mining lease area, Refer chapter 2.0 (b) & (c) of the Mining Plan.
3.	Infrastructure & Environment	The Satna -Rewa NH-75 road is passing at a distance of 2.0 kms in south. Satna is the Distt. head quarter located at a distance of about 14 kms. from the lease area in west direction. The nearest railway station is Hinauta Ramban on Rewa-Satna section of WCR at 0.4 km in SSW and Satna at 15kms in west. Post office is at Sajjanpur and Police Station is at Rampur Baghelan. Dispensary is at Sajjanpur. No historical place exists within 500 m radius. There is no National Park, Sanctuary within 10.0 km radius.
4.	Previous exploration	Refer Part -A, 1.0 (e) of the Mining Plan.
5.	Geology	Refer Part -A, 1.0 (b) & (c) of the Mining Plan. Geological Plan & Section has been appended.



R.C. BANSAL
Mining Engineer

6.	Aerial/Ground Geo physical/ Geo chemical data	No aerial/Ground Geo physical/ Geo chemical study or survey carried out
7.	Technological investigation	Refer Part -A, 1.0 (e) of the Mining Plan. Only pitting and drilling carried out. The area is explored under G2 stage.
8.	Location of data points.	The survey was carried out by total-station.
9.	Sampling technique	Random sampling was carried out from pit.
10.	Drilling technique and drill sampling employed.	DTH drilling was carried out. Vertical bore hole upto 6m depth was drilled.
11.	Sub-sampling techniques and sample preparation.	Adequate measures were taken to ensure that sample is representative. The sample was prepared by coning and quartering and then the material being sampled.
12.	Quality of assay data and laboratory tests.	The chemical testing was done by a NABL Accredited lab.
13.	Moisture	The tonnage was estimated on a dry basis.
14.	Bulk density	The bulk density has been assumed based on the results found in past.
15.	Resource estimation technique	The area is explored by pitting and drilling. There is sufficient data to infer the resource. The resource has been estimated by cross section area method. The bore hole exists within 400m distance. The mineral resource has been classified under G2 stage. The grade of the mineral is cement. The recovery of saleable ore above threshold value within ore body is 80%.
16.	Further work	10 bore holes upto 30m depth is proposed during the current proposal period to bring the resource under G1 stage and to check the grade variation.
17.	Annexure/ Enclosures to the report	The geological plan & section has been enclosed along with analysis report and photographs of the pit in the ML area.
18.	Any other Information	Nil.

(A) EXPLORATION - Pitting/Trenching/Drilling:- Up to date surface geological plan has been appended as plate-5 showing ultimate pit limit, exploration already carried out.

The details of exploration already carried out including the evidence of mineral existence have been shown on Geological plan and Section.



R.C. BANSAL
Mining Engineer

ii) Number of boreholes indicating type (Core/RC/DTH), diameter, spacing, inclination, Collar level, depth etc with standard borehole logs duly marking on geological plan/sections.

Four DTH bore hole was given upto 6 m depth to establish the nature and occurrence of the ore body. The bore holes were vertical.

(iii) ENVIRONMENTAL FACTORS-

(i) EIA & EMP, Mine Closure and reclamation plan, sustainable development strategy

etc.- The EIA EMP has been prepared. The progressive mine closure has been planned.

Backfilling of voids -

During Proposal Period - No backfilling will be carried out.

At lease period end - Backfilling of void will be carried out simultaneously. Backfilling will be done in 8.10 ha mined out area. The height of the backfilling will be upto ground level.

(ii) Reclamation & rehabilitation -

1. During Proposal Period - No reclamation is proposed.

2. At Conceptual Stage - Reclamation will be carried out by simultaneous backfilling During conceptual stage. About 8.10 ha area will be backfilled and reclaimed during the conceptual period. The height of the backfilling will be up to the ground level. The soil to the thickness of 0.20m will spread at top, leveling will be done and rehabilitation by afforestation of native species such as Karanj, Neem, Mango, Shisham, Kachnar, Gamhar, Jamun, Mahua, etc. Conceptual rehabilitation by plantation will be carried out in 8.10 ha area. About 8100 number of trees will be planted in reclaimed area during conceptual period. Area reclaimed by water harvesting will be 28.06 ha. Rehabilitation of mined out land by making water reservoir will be by developing for Pisciculture, irrigation use and picnic spot etc

(iv) CONTENTS OF PRE FEASIBILITY REPORT

Mineral resource estimate for conversion to mineral reserve.

Limestone is found below OB soil in pockets towards west while out cropping in east. The mineral reserve has been converted from resource based on the statutory provisions of Rule 111 of MMR 1961 and slope stability. The whole limestone within mineable area leaving statutory barrier/restricted area will be mined out. The mineral resource is inclusive of the mineral reserve. Pre Feasibility level of study was undertaken to enable mineral resource to be converted to mineral reserve.

RESERVE ASSESSMENT -

(a) Categorisation of total mineral resources and mineral reserve:-

The total mineral resources have been put under 332 categories while the mineral reserve has been put under 122 category as per the UNF classification. The lease area is explored by way of pitting and drilling within ML area. Hence the reserve/resource has been put under G2 level.

3) **E-1 Economic Axis:**

- General exploration carried out laterally as well as in depth by way of pitting and drilling.
- Mining report/Mining Plan prepared under Rule 16 of MCR 2016.
- Specific end use grade of reserve established. The limestone of the lease area will be mined out economically to be used in nearby cement plant.
- Specific knowledge of forest/non forest and other land use data. The lease area is partly forest land (37.0 ha) and partly revenue land (1.129 ha).
- The limestone is economically viable to be mined out in view of huge demand in the nearby cement plants.

2) **Feasible Axis:- Pre Feasibility study carried out**

- Geology:** (i) General exploration carried out by way of drilling, pitting and sampling. Local geology is in confirmation with regional geology. Mineralogy and Geometry of the deposit in the lease area established due to extensive mining in past. The identification of the ore body carried out and only limestone was found to occur in the lease area. The limestone is of Bhander Group in Vindhyan Super group. The grade of limestone is cement grade. The deposit is regular, homogeneous and bedded with gentle dip. The overburden in part area is in form of soil and shale.
- Mining :** The mine will be worked by other than fully mechanised method. Pre production & development plan prepared and appended. The estimate of man power has been carried out.
- Environment:** Detailed land use data known. Base line data on environment such as AAQ data, soil analysis, surface & ground water sampling, noise level data and land use data etc. will be generated during process of EC.
- Processing:** No processing carried out or is proposed at mine site.
- Infrastructure:** Site services and rest shelter constructed as per Mines Act & Rules.
- Costing:** Capital cost and operating cost has been evaluated based on comparable mining operations. The cost of production will be Rs 275 and PMV will be about Rs. 350/-PMT.
- Marketing:** Over view taken. The limestone is of high demand in the consumer industry.
- Economic Viability:** Cash flow fore cast studied and project found economically viable as the margin of profit is around 25%.
- Other factors:** Statutory provisions relating to land, labour, mining, taxation etc studied and will be taken care off. Forest clearance and Environment clearance will be taken before start of Mining operations.

3) **Geological Axis :-**

G-2 - 1. (i) **Geological survey:** Mapping on a scale of 1:2000 with triangulation points & bench marks carried out and shown in surface geological plan. The nature of

deposition of mineral has been shown on geological plan & section. 200m influence of pit and bore hole has been taken for consideration.

- (i) Linking of map with topo grid carried out and latitude and longitude of the corner points taken.
- (ii) Assessment of lithology carried out based on the mineralisation studied and mapped.
- (iv) The mining lease was granted firstly in year 1981. The Limestone in the lease area is of cement grade.

2. Geochemical survey : Sampling from pit. The threshold value of limestone has been considered as $\text{CaO} - 34\%$ (Min) and $\text{MgO} - 4\%$ (Max)

3. Geophysical survey : Extent of mineralisation surveyed laterally. There are mining leases and excavated pits all around the ML area within 1km.

4. Technological: Drilling, exploratory mine, sampling carried out. The mineralisation has been proved in pit and bore hole given from the surface. The area was previously worked under mining lease by the lessee. The excavated pits infer for surface and sub surface co-relation of mineralised zones. 200m influence of pit and bore hole has been taken for G2 axis.

(b) Method of estimation of mineral resource & reserves:-

Method of estimation of mineral reserves:-

The total mineral resources and reserves have been calculated by cross section area method. In this method the cross section area of the ore body has been multiplied by the influence of the section line to give the volume. This in turn has been multiplied by the bulk density and incidence to find out the tonnage. The mineral reserve thereafter has been calculated by depleting remaining resources from total mineral resources.

Mineral Resources :- Indicated Mineral Resource (332)-

Section Line	Sectional Area (sqm)	Influence (m)	Volume (m^3)	Mineral Resource in tones
	A	B	$C = A \times B$	$D = C \times B.D. (2.5) \times 0.80$ (Incidence)
A - A'	1330	131	174230	348460
B - B'	2824	100	282400	564800
C - C'	3420	100	342000	684000
D - D'	3086	100	308600	617200
E - E'	3066	100	306600	613200
F - F'	3534	100	353400	706800
G - G'	2976	100	297600	595200
H - H'	1949	108	210492	420984
				4550644

Mineral reserve and Remaining Resources:-

Remaining resources = Total mineral resource - Mineral reserve



R.C. BANSAL
Mining Engineer

Remaining Resources (Pre Feasibility Mineral Resource - 222)

The following are the Pre-Feasibility Mineral Resource under UNFC classification 222 after deduction of all statutory barriers as per MMR 1961, MCR 2016 and MCDR 2017.

Deduction = Length x width x Av. Thickness x B.D. x % recovery

Deduction	
Due to 7.5 m barrier as per MMR 1961 and public works	2625m x 7.5m x 6.0m x 2.50 x 0.80 = 236250 t.
Pre Feasibility Mineral Resource (222)	236250 t.

Hence, Probable Mineral Reserve = 4550644 t. - 236250 t. = 4314394 t.

MINERAL RESERVES/RESOURCES:

UNFC	Area explored	Area Un explored	Barren land
G1	Nil	Nil	Nil
G2	38.129 ha.	Nil	Nil
G3	Nil	Nil	Nil

Level of Exploration	Resources in million tons	Grade
G1 - Detailed exploration	Nil	The Limestone is of cement grade.
G2 - General Exploration	4.550644	
G3 - Prospecting	Nil	Nil
G4- Reconnaissance	Nil	Nil

MINERAL RESERVE AS PER UNFC CLASSIFICATION:-

	UNFC Code	Quantity in million Tons	Grade
A. Total Mineral Reserve			
Probable mineral Reserve	122	4.314394	
B. Total Remaining Resources			
Prefeasibility mineral resource	222	0.236250	The Limestone is of cement grade.
Total Reserves + Resources		4.550644	

Cut off Parameters – The cut off has been taken as equivalent to threshold value i.e. CaO – 34% (Min) and MgO – 4% (Max.).

Mining factors or assumptions – The method and assumptions used to convert the mineral resource to a mineral reserve is by detailed design supported with conceptual plan for mining. The anticipated ore to OB ratio is 1:0.25. The recovery is 80% of limestone within ore zone taking into consideration the dilution factor. The mining will be done by open cast mechanised method. HEMM will be deployed for removal & loading of OB and transport of OB and ore. For winning of ore, excavator cum loader will be deployed. Other details including design parameter of mining has been given in Part -A, Chapter 2.0 of the mining plan.

Bench dimension (W x H) - 6.0m x 10.0m in ore body.

Slope angle - 45°

Drilling and blasting - Drilling and blasting will be done as per parameters given below.

Spacing	2.40-2.50m	1.0m
Burden	2.0-2.20 m	0.80m
Depth of hole	2.80-3.0 m	1.5m
Charge per hole	7.0 kg	0.45 kg
Powder Factor (t/kg)	5-6	6-7
Dia of hole	48mm	33 mm

(a) **Metallurgical factor or assumptions** - No metallurgical process or test is proposed in view of very small area and limestone having potential market of the grade found in the ML area.

(b) **Crushing/Manual dressing, Sorting, Sizing & Washing** - Sizing of ore will be done manually.

(c) **Cost and revenue factors** - The projected capital and operating cost is as under -

Capital Investment	
Area of investment	Expenses (in Million Rs.)
i. Land	38.00
ii. Mining	20.00
iii. Environmental Protection	1.0
iv. Occupational Health & Safety	0.10
Total Capital Investment	59.10

Operating/ Recurring Cost

	Area of investment	Cost per ton (in Rs.)
i. Mining		269 /-
a. Salaries & Wages of 50 staffs		30 /-
b. Diesel and Accessories for transport including mining cost		74 /-
c. Royalty on Mineral, DMF, NMET, Other Taxes & Miscellaneous Expenses		140/-
d. Interest and depreciation		25 /-
ii. Socioeconomic Development		3 /-
iii. Occupational Health and Safety		1 /-
iv. Environment Management		2 /-
Total Recurring Expenditure		275 /-

Sales Cost: Rs 350/- PHT
 Sales Cost remains constant for 5 yrs
 The cost is average comprising of total revenue generation/total sale in tonnes.

Year	Av. Sales Cost	Production in tonnes	Revenue generation in Rs.	Total Prod'n. Cost/T	Expenditure in Rs.	(+) Profit
	Rs. 275 T	Sales Cost No Change	Taxes on The Turnover Is Included in the cost of production	Includes Environment Management Cost, back guarantee Cost, etc.	Production cost	(-) Loss in Rs.
1 st	350	9600	3360000	275	2640000	720000
2 nd	350	14400	5040000	275	3960000	1080000
3 rd	350	96000	33600000	275	26400000	7200000
4 th	350	120000	42000000	275	33000000	9000000
5 th	350	120000	42000000	275	33000000	9000000
Total	350	360000	126000000	275	99000000	27000000

NPV = Rs 27000000/-

The cumulative cash flow indicated about is +ve. This cash flow is generated considering the present market dynamics. The project is economic considering the present market scenario.

No major development cost or pre production cost is involved as the over burden is very less. The lessee has a team of qualified person and adequate machineries. The others will be hired. The transport vehicles of ore to destination will be mainly of the purchasers or hired from local transporters. Site services and other infrastructure is already available. The lessee has other mines in the locality and the operating cost has been calculated based on its past experience. Allowance has been made for interest of the machineries if needed to be financed and depreciation as per time limit.

- ④ **Market assessment** – The limestone will be used in the cement plant. The specification has been given in Part A, Chapter 5 of the mining plan.
- ④ **Other modifying factors** – No other modifying factor are expected. Forest clearance and Environment clearance will be taken before start of Mining operations.
- ④ **Classification** – The mineral reserve has been classified under G2 stage of confidence level based on the structural disposition, lithological exposures, local geology and past experience of mining. The ML area has cement grade occurrence.

CONCLUSION

Based on the feasibility study carried out, the project is considered to be viable.



R.C. BANSAL
Mining Engineer

ANNEXURE – 2

COPY OF GRANT ORDER & M.L. DEED

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM AND CHEMICALS & MINES AND METALS
(DEPARTMENT OF MINES & METALS)

No. MV-I(156)/70 New Delhi, the 22nd April, 1971.

To

Shri Shrawan Kumar Pathak,
C/O Bharat Construction Transport Co.,
Near Old Power House,
SATNA (M.P.).

Subj- Revision application under rule 54 of MCR, 1960.

Sir,

I am directed to refer to your application for revision dated 27-3-1970 on the above subject and to say that you have filed the revision application against the order of the State Government dated 22.12.1969 rejecting your M.L. application dated 16-2-69 for grant of limestone over 94.22 acres in village Satari, Taluk Raghurajnagar, District Satna.

2. The Central Government have carefully considered the grounds of revision, comments of the State Govt., and your counter comments thereon. The Central Govt. have observed that you filed an application on 16-2-69 in pursuance of a notification which threw open this area with effect from that date. The State Government rejected the application on the ground that the area was reserved for the public exploitation. Now the State Govt. takes the line that the notification dated 17-1-69 was defective and it has been cancelled on 7-5-70 and a fresh notification of de-reservation has been issued on 29-5-70. Having declared the area de-reserved on 17-1-69 it is not correct for the State Government to have rejected the application on the ground that the area was reserved. It is also not a proper argument to hold that the cancellation order was not only passed after over a year from the date of application, but it was passed even after the revision application had been filed. In these cir-

R.C. BANSAL
Mining Executive

lumstances, the Central Government in exercise of their revisional powers under Rule 55 of the Mineral Concession Rules, 1960, and of all other powers enabling in this behalf, hereby set aside the orders of the State Government contained in their letter No. 2143/7592/12, dated 22.12.69 and further direct the State Government to consider your application and dispose it off on merits.

Yours faithfully,

Sd/- 21-4-71

(A. SETHUMDAHavan)

UNDER SECRETARY TO THE GOVT. OF INDIA

Copy forwarded for information and compliance to the Secretary to the Government of Madhya Pradesh, Natural Resources Department, Bhopal, with reference to his letter No. 6647-3744/XII, dated 7-9-70.

The State Govt. is directed to consider the application of the petitioner and all other applications filed in response to the notification dated 17-1-69 ~~des~~ reserving the area. Obviously only those who have come up in the revision and thereby kept their applications alive will be taken into consideration and disposed of on the basis of their relative merits.

2. D.S.(K)
3. Guard file.

Sd/-

21-4-71

(A. SETHUMDAHavan)

UNDER SECRETARY TO THE GOVERNMENT OF INDIA.

(SB)

R.C. BANSAL
Minister

मध्यपृष्ठ शान्ति
विमोक्ष वापन रामाय ।

1998-05-09 (1998/12, 1000, 7000, 1.0, 1.0, 1.0)

प्र० दूर्लभ

लिला अनन्त (म५५०) :

१५८८ - दोनों पुनराय विजय नवाचारे १९१२-१३ रात्रि भाष्टानि परं दृष्टिकोण
दृष्टिकोण वे दोनों विजय के प्राचीनकालीन विजय थे। यहाँ ।

फलाई :- इस लिखान का नामनं फ. 7142-7522/12 प्र. 22-12-1960.

15 www.ncbi.nlm.nih.gov

पेरियार गांव ने तामे रेग्यापन विवाहवर्ती 1960 के दिन 55 वर्षा पूर्व उदास शास्त्रीयों "प्रयोग में जाते हुए राज्य गांव ने रेग्यापन विवाह जने के लिए देश के तदनुसार राज्य गांव ने तार-करटीन विवाह के लिए देशी उपरोक्त वित्त राज्य गांव के 54-22 रुपये देने के लिए विवाह लिया जाया जाया वर ये रुपये के पाठ्यक देने अनुपरांत विवाह जाना चाहेगा जिसका दिन है :-

१. शक्ति २० पर्यं
 २. नियत कर } शास्त्र एवं नियरत । रोग, रुक्ष देवे : रुक्ष १९२७ तथा
 ३. आधिकार गुह्य } ग्राम विवाह नियमावली १९६० में नियमित तरीके अनुसार
 ४. माइक्स एंड नियरत । रोग, रुक्ष देवे : रुक्ष १९५७ के अनुसार नियमों
 ५. तथा ग्राम विवाह नियमावली १९६० तथा जन्म नियमों में नियमित अन्यतरी
 ६. भ परिवार पर्यं जायपर्यक दे ।

(2) यांद उस तार्ते आदेहक परे मान्य छोतो उन्हें अवध्यक नियि थांप नहा करके राने रियावत नियावतन्ना 1960 में इस कार्य 'के' पर इनपटटे अ करारनामा, लोकून आपेहा प्रसारत होने वां लाई से 6 सार्द में इन्हांद करने के तेत्र गाडेता रिया जाय। इन्हेपासे वां भोर से रात्र्य लगाल अनुवैद वां प्रथम देणो दृडापवर्तो से यामता नियांदह फराया जान, इस दिभाग के अनुवेता क. 7481/सो. अर. 383/12 दिनांक 27-7-1961 के अनुसार अपके द्वारा नियापित १५या गाय तथा उत्तरा एक छात इस दिभाग मे भेजे जाय। उपका नं. 902/। तथा 903 कर 94-22 अकड तेज स्पौकून दिया गया है।

तथा फैटर में दो जापे ।
भट्टप्रदेश के राज्यालय के नाम पर तथा

o; W^oo^oo^o

(金本位 货币制)

नेपालीक यात्रान् विभाग ।

पंचांग १४८१/१२, भोपाल, दिनांक ११/७३।

एतिहासिक ।-

(4) ज्ञातक भौमिके दर्द अनिकर्म, म०२०, भोपाल,

(2). श्री डायरेक्टर जनरल सेक्टरी शाफ माइन्स, पन्थार ।
को सूचनार्पि देखित है ।

(अद्येतर अस्तित्वा)

अधर मैरिय,

मजमदार/ १३/१/

~~160~~
711.173

59



30/1/58

13641/1

मध्य बोर्ड ग्राम,
बैंग साधन विभाग

मोराम, प्रतापगढ़ ८२० १५

ग्राम ग्राम,
मध्य बोर्ड ।

विषय:- बोर्ड ग्राम सतरी नियम सत्त्वा बोर्ड ९४-२२ एक्स चुनावत्तर
सर्व दो वर्ष कुपार बाट्टा ।

डैर्भ १- नामसंक्ष ग्रामन अ जादेश प्रमाण ५९९/७४८१/१२ दिनांक

19-१-७३ ।

677
24/8/58

राज्य ग्राम ने जादेश प्रमाण ५९९/७४८१/१२ दिनांक १९-१-७३
द्वारा प्राम सतरी के सेत्र ९४-२२ एक्स ए चुनावत्तर बोर्ड ग्राम ग्राम
संघरूप नियम गया है ए अनुच्छय भी अर्थवादी भवित भी गई है, एक्स
बोर्ड (Voc. १०८) का जादेशन नियम जाता है कि जादेशक से दो ग्राम के
अवर अन्यान्य धोनधारा लेके अनुच्छय नियादन भी अर्थवादी भी जाकर
अनुच्छय भी ग्राम नूरनार्थ भेजी जावे ।

W-C
W-B²
W-B¹

मध्य बोर्ड

(बोर्ड दोष)
ग्राम साधन
मध्य बोर्ड ग्राम,
बैंग साधन विभाग

४२३-२०/८३/१८३/२५४४/११ ग्रामा-विभाग

अतिरिक्त श्री किशोर कुमार पाठक विभाग संगठन के
नाम से एक अध्यक्ष एवं पहले विमोत, वृक्षार्थी एवं
संसाधन व्य. ने अन्यौक्ति की दिल्ली । अप्रैल

२००१ संविधान

विभाग संघरूप एवं विभाग

विभाग

61

H.C. Petition No. 1170 of 1974

Shrawan Kumar Pathak

v.

State of A.P. and others

O.R. 208

The following order of the Court was
delivered by:

O.P. Singh, C.J. The petitioner made an application on 16th January 1969 for grant of a mining lease of limestone as major mineral over an area of 94.22 acres of Village Satiri, District Satna. This application was rejected by the State Government by order dated 22nd December 1969. The petitioner went up in revision which was allowed by the Central Government by order dated 27th April 1971 and the State Government was directed to consider the application of the petitioner in accordance with law. By order passed on 19th January 1973, the State Government allowed the application by granting the mining lease of the entire area of 94.22 acres in favour of the petitioner. It, however, appears that passing the executive of the mining lease, the State Government had a second thought over the matter. It served the Central Government under section 30 of the Mines and Mineral (Regulation and Development) Act, 1951, for revision of the order dated 16th January 1973. The Central Government, by order dated 6th September 1973 (Annexure A-IV), set aside the orders of the State Government on 12th January 1973 and 26th January 1973, and directed the State Government to consider the applications of the petitioner and others for grant of mining lease for 34

limestone in village Sotiri. It is this order which the petitioner challenges by this petition under Article 226 of the Constitution.

2. Learned counsel for the petitioner submits that the order of the State Government allowing his application for grant of mining lease over the entire area of 94.22 acres could not be set aside by the Central Government in revision without notice to the petitioner and as no notice was issued to the petitioner before passing the impugned order, the order is invalid. In our opinion, this contention must be accepted. The petitioner clearly alleged in paragraph 13 of the petition that no notice and no hearing were given to him before the exercise of the powers of revision under section 30 of the Act by the Central Government. The Central Government has not filed any return. The State Government in its return has not stated anything on this point. It must, therefore, be accepted that the petitioner was not given any notice before the impugned order in revision was passed by the Central Government. It may however be emphasized that the revisional power under section 30 of the Act is quasi-judicial in nature and all processes affected by the order to be passed in revision are entitled to notice.

3. The petition is allowed. The order of the Central Government dated 1st September 1973 is set aside. The Central Government is directed to re-hear the revision after notice to the petitioner. There will be no order as to costs of this petition. The security amount will be the petitioner.

10/10/1974 S.D./ MARCH 1975 JUDGMENT S.D./ U.N.BHAGWAT JUDGE



WIT UNNISI PETITION 226 OF THE CONSTITUTION OF INDIA

HIGH COURT OF MADHYA PRADESH JABALPUR
WEDNESDAY THE 25TH DAY OF JULY 1979.

PRESENT

THE HONOURABLE THE CHIEF JUSTICE SHRI G.P.SINGH

AND

THE HONOURABLE SHRI JUSTICE U.N.BHACHA

MISCELLANEOUS PETITION NO. 1175 OF 1979

BETWEEN

Shrawan Kumar Pathak, son of Shri
Moolchandji Patnayak, aged 32 years,
resident of Sonaria Chowk, Satna, M.P.

PETITIONER

AND

1. State of Madhya Pradesh,
2. Union of India,
3. Collector, Satna, M.P.
4. Mining Officer, Satna, M.P.

RESPONDENTS

To,
The Collector,
Satna.

This PETITION FILED on behalf of the Petitioner
under Articles 226 and 227 of the Constitution coming up
for final hearing on 23rd July 1979 and having heard Shri
A.U.Thakur counsel for the Petitioner and Shri J.M.Sood
Govt. Advocate for the respondents now.

IT IS ORDERED AS FOLLOWS

The Petition is allowed and the Order No. 24161/73-KYI
dated 5th September 1973 passed by the Deputy Secretary to
Govt. of India, Ministry of Steel & Mines, Department of
Mines, New Delhi, is hereby set aside and the Central

-2-

Government is directed to rehear the revision after notice to the Petitioner.

There will be no Order as to costs.

WITNESS THE HONOURABLE SHRI G.P. SINGH CHIEF JUSTICE of the High Court of Madhya Pradesh this Twentyfifth day of July in the year one thousand nine hundred and Seventy Nine.



ADDITIONAL REGISTERS.

64

R.C. BANSAL
Mining Engineer

GOVERNMENT OF INDIA
MINISTRY OF STATE, & NEW
DIRECTORATE OF FINES

NO. 2 (430) / 979-MV New Delhi, the 15th January, 1981

To

The Secretary to the Govt. of Madhya Pradesh,
Department of Mineral Resources,
Bhopal.

Subject:- Application for revision under rule
54 of M.C. rules, 1950 against State
Government's order in respect of ML/PL
for **limestone** in village
Satari District **Satara** Case re-opened
consequent on orders dated 25.7.79 passed by/
Ref:- State Govt's letter No. -

Ref:-

sir,
I am directed to ~~order to~~ revision application
dated _____ filed by Shri Shrawan Kumar Pathak
(xxxxxx) on the above subject and
to enclose a copy of the order passed by the Central
Government in this regard.

Yours faithfully,

(R.P. Rail)

REVIEW ARTICLE

Copy with 4 copy of order forwarded for information

Shri Shrawan Kumar Pathak, Pathak Building, Someria Chowk,
Betwa (M.P.)

Copy for Ward file

(R.P. Rai)
to the Govt. of India

1000

R. C. BANSAL
Mining Engineer

(65)

Final Order No. 52/81
Dated 9.1.81

In Revision Application No. 2(437)/79-MV

Shri Shrawan Kumar Pathak Petitioner
Vs.

State Govt. of Madhya Pradesh.. Respondent

D R D E C R

(Under Section 30 of the MM(M&A) Act, 1957)

Hearing of this revision petition has become necessary consequent on the orders dated 25.7.79 passed by the High Court of Madhya Pradesh, Jabalpur in Misc. Petition No.1175 of 1974, parties Shri Shrawan Kumar Pathak Vs. The State of Madhya Pradesh and three others. By the said order, the High Court set aside the order No. 3(160)/73-MV1 dated 6.9.1973 passed by the Central Government and directed rehearing of the revision after notice to the petitioner.

2. Fact material for decision of this revision petition is that the State Government by order dated 19.1.73 granted mining lease for limestone to the petitioner for an area of 94.22 acres. Subsequently, the State Govt. had a second thought in the matter and had moved the Central Government for reducing the area. The Central Government by order dated 6.9.1973 (which has been set aside by the High Court) accepted the recommendations of the State Government and set aside the order of the State Government, and directed the State Government to consider the petitioner's application afresh.

3. Notice of hearing of the revision petition was issued to the petitioner and other parties mentioned in the writ petition and the case was fixed for hearing on 22.10.78. On this date, the petitioner appeared with Shri P.V. Lala, Advocate. None appeared for the State Government. The petitioner's counsel was heard.

4. The petitioner has filed a copy of notings and minutes of the State Government from which it appears that the State Government wanted to restore the area of 94.22 acres granted to the petitioner. We do not know how the petitioner got a copy of these ~~xxx~~ notings. That apart, none appeared for the State Govt. to support the subsequent recommendation of the State Government proposing reduction in the area granted to the petitioner. The Central Government therefore feel that the original order dated 19.1.73 passed in favour of the petitioner should be allowed to stand and need not be interfered with.

....2/-

5. The Central Government therefore, in exercise of the powers vested in them under Section 2 of the Mines and Minerals (Regulation & Development) Act, 1957 hereby reject the proposal of the State Government to reduce the area granted to the petitioner and uphold the order dated 19.1.73 passed in favour of the petitioner.

Sd/-

(T. Balakrishnan)
Joint Secretary (Mines)

Sd/-

(S.D. Jha)
Joint Secretary (Law)

1/2/73

1/2/73

(H.)
Ministry of
(Department of Mines)

R.C. BANSAL
Mining Engineer

FORM K
MODEL FORM OF MINING LEASE
(See rule 31)

THIS INDENTURE made this 1st day of July 19th 19⁰⁵
between the Governor of Madras the President of India (hereinafter
referred to as the State Governments which expression shall where the context so
admits be deemed to include the successors and assigns) of the one part, and the

John Potts Street, town, city, etc. (Name of person with address and occupation)

(hereinafter referred to as "The Lessee" which expression shall, where the context so admits, be deemed to include his heirs, executors, administrators, representatives and permitted assigns.

3 _____ (Name of person with address and occupation) and

(Name of person with address and occupation)

(hereinafter to be called as the lessee which expression shall where the context so admits be deemed to include their respective heirs, executors, administrators, representatives and their permitted assigns).

all carrying on business in partnership under the firm name and style of _____
(Name of the firm) registered under the Indian Partnership Act, 1932 (9 of 1932) and having their registered office at _____
in the town of _____ (hereinafter referred to as "the Licensee" which expression where the context so admits be deemed to include all the said partners, their respective heirs, executors, legal representatives & permitted assigns.)

(Name of Company)

a company registered under _____ (Act under which
incorporated) and having its registered office at _____ (Address) (here-
inafter referred to include its successors and permitted assigns.), . of the other party

WHEREAS THE Lessee has/have applied to State Government in accordance with the Mineral Concession Rules 1960 (hereinafter referred to as the said Rules) for a mining lease for Line 50 in respect of the lands described in Part I of the Schedule hereunder written and has/have deposited with the State Government the sum of Rs 1000/- as security and the sum of Rs 417/- for meeting the preliminary expenses for a mining lease (and WHEREAS the Central Government has approved the grant of the lease) (No. MIL-152 (57) 61 dt: 3. in. 1963).

WITNESSETH that in consideration of the rents and royalties covenants and agreements, by and in these presents and the schedule hereunder written reserved and contained and on the part of the lessee/lessees to be paid observed and performed, the State Government (with the approval of the Central Government) hereby grants and demises unto lessee/lessees.

All those the mines in the vicinity of _____
 where state the mineral (minerals) thereat and in the schedule referred to on
 the said mineral(s) situated in or under the lands which are referred
 to in part I of the said schedule, together with the liberties, powers and
 privileges to be exercised or enjoyed in connection herewith which are mentioned
 in part II of the said Schedule subject to the restriction and conditions
 to exercise and enjoyment of such liberties, powers and privileges which are
 mentioned in part III of the said Schedule EXCEPT and reserving out of this demise
 unto the state Government the liberties, powers and privileges mentioned in part IV of
 the said Schedule EXCEPT the privileges hereby granted and demise unto the lessees
 for the _____ day of _____ 19____ for the term of 20 years thence next
 ensuing YIELDING AND PAYING therefore unto the state Government the several
 rents and royalties mentioned in Part V of the said Schedule at the respective times
 therein specified subject to the provisions contained in Part VI of the said Schedule and
 lessee/lessees hereby covenants/covenant with the state Government as in part VIII of
 the said Schedule is expressed and the State Government hereby covenants with the
 lessee/lessees as in part VIII of the said schedule as expressed AND it is hereby mutu-
 ally agreed between the parties hereto as in part IX of the said Schedule is expressed.

IN WITNESS WHEREOF these presents have been executed in manner
 hereunder appearing day and year first above written.

The Schedule above referred to

PART I

The Area of this Lease

All that tract of lands situated at Village Sateri _____
 in (Pargana) in _____ the Registration
 District of _____ Sub-District _____ Thana _____ bearing
 Cadastral Survey Nos. 10, 11, 12, 13, _____ containing an area of... _____
 or thereabouts delineated on the plan hereto annexed and thereon coloured _____
 and bounded as follows. _____

On the North by _____ No. 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 135

To make roads
and ways, and
use existing
roads and ways.

3. Liberty and power for or in connection with any of the purposes mentioned in this part to excavate, mine, quarry, or appropriate under the said lands any stone, brick, tile, plant dressing, flint, sand, gravel, coal, lignite, or other building materials or stones, and any sheds and other buildings for the work and convenience of the use, storage or under the said lands.

To make roads
and ways, and
use existing
roads and ways.

4. Liberty and power for or in connection with any of the purposes mentioned in this part to make any tramways, railways roads, aircraft landing grounds and other ways in or over the said lands and to to maintain and go and repair with or without horse, cattle, wagons, aircrafts, locomotives, or other vehicles over the same (of any existing tramways, railways roads and other ways in or over the said lands) on such conditions as may be agreed to.

To get building
and road materials
etc.

5. Liberty and power for or in connection with any of the purposes mentioned in the part to quarry and get stone, gravel and other buildings and road materials and clay and to use and employ the same and to manufacture such clay into bricks or tiles and to use such bricks or tiles but not to sell any such material bricks or tiles.

To use water
from streams
etc.

6. Liberty and power for or in connection with any of the purposes mentioned in this part but subject to the right of any existing or future lessors and with the written permission of Deputy Commissioner Collector to appropriate and use water from any streams, water sources, springs or other sources in or upon the said lands and to divert, step up or down any such stream or water course and collect or impound any such water and to make construct and maintain any water-course, culverts, drains or reservoirs but not as to deprive any cultivated lands, villages, buildings or watering places for livestock of a reasonable supply of water as before accustomed, not in any way to foul or pollute any streams or springs. Provided that the lessor/lessors shall not interfere with the navigation in any navigable stream or shall divert such stream without the previous written permission of the State Govt.

To use land for
stacking, heap-
ing, depositing
purposes.

7. Liberty and power to enter upon and use a sufficient part of the surface of the such lands for the purpose of stacking, heap-ing, storing or depositing therein any produce of the mines or works carried on and any tools, equipment, earth and materials and substances dug or raised under the liberties & powers mentioned in this part.

Conveying
and conveying
away of pro-
duction.

8. (a) Liberty and power to enter upon and use a sufficient part of the said lands to benefit any ore produced from the said lands and to carry away such benefited ore.

To make coke
to be used in
the making of coal.

(b) Liberty and power upon the said lands to convert into coke any coal or coal dust produced from the said lands and to carry away such coke.

To clear brush
wood to fell
timber, etc.

9. Liberty and power for or in connection with any of the purposes mentioned in this part and subject to the existing rights of cultivators etc. as provided in clause 3 of part III of this Schedule to clear underground and above ground and to fell and utilise any trees or timber standing or found on the said lands, provided that the State Govt. may ask the lessee/lessors to pay for any trees or timber felled and utilised, by him/them at the rates specified by the Deputy Commissioner/Collector or the State Govt.

Kattail

PART III

Conditions of the leasehold of the State Forests and Part III of Part II.

1. No cutting shall be carried out or placed and no surface operations shall be carried out upon any public property situated burning or buried ashend or other place in the State Forests and otherwise as public ground lies in such a manner and in such a period of time as is being worked property of the lessor or other person and not used shall be used for any operations which in some way affect the person who holds the State Forests in such a manner as is not included in his lease. The lessor or lessee shall not associate with any subject way used or land.

2. Power using for surface operations and land which has not already been used for such operations, the lessee/Lessee shall give to Deputy Commissioner/Collector of the District two calendar months previous written warning specifying the name or other description of the operation and the extent of the land proposed to be so used and the purpose for which the same is required and the said land shall not be so used if objection is issued by the Deputy Commissioner/Collector within two months after the receipt by him of such notice unless the objections so stated shall in reference to the State Government be annulled or waived.

3. The lessee/Lessee shall not without the express sanction to the Deputy Commissioner/Collector cut down or injure any timber or trees on the said lands but may without such sanction cut away any brushwood or undergrowth which interferes with any operations authorised by these presents. The Deputy Commissioner/Collector of the State Government may require the lessee/lessee to pay for any trees or timber felled and utilised by him/them at the rates specified by the Deputy Commissioner/Collector of the District.

4. Notwithstanding anything in this Schedule contained the lessee/lessee shall not enter upon any reserved forest included in the said lands without previous sanction in writing of the District Forest Officer nor fell cut and use any timber or trees without previous sanction in writing of that Officer not otherwise than in accordance with such conditions as the State Government may prescribe.

5. The lessee/lessee shall not work or allow to be worked or carried on any mining operations at or to any point within a distance of 50 metres from any railway line except with the previous written permission of the Railway Administration concerned or under or beneath any ropeway or any ropeway trestle or station except under and in accordance with the written permission of the authority, city owning the ropeway or train an reservoir, canal or other public work such as public road and buildings or inhabited site except with the previous written permission of the Deputy Commissioner/Collector or any other officer authorised by the State Government in this behalf and otherwise than in accordance with such instructions, restrictions and condition either general or special which may be attached to such permission. The said distance of 50 metres shall be measured in the case of railway, reservoir or canal horizontally from the outer toe of the bank or the outer edge of the cutting as the case may be and in case of a building horizontally from the plain thereof. In the case of village roads or worksite shall be carried on with a distance of the 50 metres of the outer edge of the cutting except with the previous permission of Deputy Commissioner/Collector or any other officer duly authorised by the State Government in this behalf and otherwise than in accordance with such directions, restrictions and conditions, either general or special, which may be attached to such permission.

Kathals

71

R.C. BANSAL
Mining Engineer

6. The licensee shall allow existing and future holders of Government leases or leases over any land which is comprised in or adjacent to, or reached by the land held by the licensee, reasonable facility and access thereto.

PROVIDED THAT no substantial hindrance or interference shall be caused by such holders or licensees or lessees to the operation of the lessee/lessees under these preniss and fair compensation (as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government) shall be made to the lessee/lessees for loss or damage sustained by the lessee/lessees by reason of the exercise of this liberty.

PART IV

Liberties, powers and Privileges reserved to the State Government.

1. Liberty and Power for the State Government or to any lessee or persons authorized by it in that behalf of enter into and upon the said Lands and to search for and work dig get raise dress process convert and carry away minerals other than the said materials and any other substances and for those purposes to sink, drive, make, erect, construct maintain and use such pits shafts inclines drifts levels and other lines waterways, airways, water courses, drains, reservoirs, engine, engines machinery plant building canals tramways railways, roadways, and other works and conveniences as may be deemed necessary or convenient.

PROVIDED THAT in the exercise of such liberty and power no substantial hindrance, or interference shall be caused to or with the liberties, powers and privileges of the lessee/lessees under these present and that fair compensation (as may mutually agreed upon or in consequence of disagreement as may be decided by the state Government) shall be made to the lessor/lessor for all loss or damage sustained by the lessee/lessees by reason of or in consequence of the exercise of such liberty and power.

Rail-roads 2. Liberty and power for the State Government or any lessee or person authorised by it in that behalf to enter into and upon the said lands and to make upon over or through the same any railways, tram ways, roadways or pipe lines for any purpose other than those mentioned in part II of these presents and to get from the said lands stones gravel earth and other materials for making maintaining and repairing such railways, tram ways, and roads or any existing railways and roads and to go and repass at all time with or without horses, cattle or other animals carts, wagons, carriages locomotives or other vehicles over or along any such Railways, tramways, roads lines and other ways for all purposes and as occasions may require provided that in the exercise of such liberty and power by such other lessee or person no substantial hindrance or interference shall be caused to or with the liberties powers and privileges of the lessee/lessees under these presents and that fair compensation as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government shall be made to the lessee/lessee for all loss or damage substantial hindrance or interference shall be caused to or with the exercise of such liberty and power of such person of such liberty and power.

Kottals

1951
10 29
CIELO

110 (1971) 4

W. S. B.
R. C. BANGAL

PART V

Rents and Royalties Reserved by this lease.

1. The lessee shall pay, for every year except first year of the lease yearly dead rent as specified in clause 2 of this Part,

Provided that where the holder of such mining lease becomes liable under section 9 of the Act to pay royalty for any mineral removed or consumed by him or by his agent manager, employee, Contractor or sub-lessee from the leased area he shall be liable to pay either such royalty or dead rent in respect of that area whichever is higher.

2. Subject to the provisions of clause 1 of this part, during the subsistence of the lease, the lessee/lessees shall pay to the State Government annual dead rent for the lands demised and described in part I of this schedule at the rate for the time being specified in the Third schedule to the Act in advance for the whole year on or before the 20th of the first month of the ensuing year in the District Treasury or Sub-Treasury,

3. Subject to the provisions of clause 1 of this part, the lessee/lessees shall during the subsistence of this lease, pay to the State Government royalty in respect of any mineral/Minerals removed or consumed from the leased area during a month by him/them, or his/their agent, manager, employee, contractor or a sub-lessee exempt as exempted under section 9 (2-A) of the Act, on or before the 20th of the ensuing month in the Division District Treasury or Sub-Treasury at the rate for the time being specified in the Second Schedule of the mines and Minerals (Regulation and Development) act, 1957.

4. The lessee/lessees shall pay rent and water rate to the state Government in respect of all parts of the surface of the said lands which shall from time to time be occupied or used by the lessee/lessees under the authority of these presents at the rate of Rs. ~~2/-~~ ^{1/-} and Rs. ~~4/-~~ ^{2/-} respectively per annum per hectare of the area so occupied or used and so in proportion for any area less than an hectare during the period from the commencement of such occupation or use until the area shall cease to be so occupied or used and shall as far as possible restore the surface land so used to its original condition. surface rent and water rate shall be paid as herein before detailed in clause 2. PROVIDED THAT NO such rent water rate shall be payable in respect of the occupation and use of the area comprised in any road or ways to which the public have full right of access.

PART VI

PROVISION RELATING TO THE RENTS AND ROYALTIES

1. The rent water rate and royalties mentioned in Part V of this Schedule shall be paid free from any deductions the State Government at, and in such manner as the State Government may prescribe PROVIDED ALWAYS and it is hereby agreed that Rs. ~~1000/-~~ the balance standing to the credit of the lessee/lessees on account of the deposit made by him/them as a licensee/lessee of the area which included the said lands shall be retained and accepted by the State Government in satisfaction of the rents and royalties mentioned in part V until they reach that amount.

(1)
- 6 -

(7)

3. For the purpose of computing the said royalties the lessee/lessees shall keep a correct account of the mineral minerals produced and deposited the account to be shown in the books of the said lessees. In case of non-payment of royalties, the same may be recovered by an officer authorized by the State or State Government.

Herein specify the mode of arriving at sale principles at pits incident mineralisation.

3. Should any rent, royalty or other sum due to the State Government under the terms and conditions of these presents be not paid by the lessee/lessees within the prescribed time the same together with a simple interest at the rate of 10% per annum may be recovered as a certificate of such officer may be specified by the State Government by general or special order, in the same manner as an arrest of land revenue.

PART VII

The Covenants of the Lessee/Lessees

1. The lessee/lessees shall pay the rent, water rate and royalties reserved by this lease at such times and in the manner provided in PARTS V & VI of these presents and shall also pay and discharge all taxes, rates, assessments and impositions what soever being in the nature of public demands which shall from time to time be charged assessed or imposed by the authority of the Central and State Govt upon or in respect of the premises and works of a like nature except demands for land revenues.

2. The lessee/lessees shall at his/their own expense erect and at all times maintain and keep in repair boundary marks and pillars according to the demarcation to be shown in the plan annexed to this lease. Such marks and pillars shall be sufficiently clear of the shrubs and other obstructions as to allow easy identification.

3. Unless the State Government for good cause permits otherwise, the lessee/lessees shall commence operation within one year from the date of execution of the lease and shall thereafter at all times during the continuance of this lease search for, in work and develop the said minerals without voluntary intermission in a skillful and workmanlike manner and as prescribed under clause 1, hereinafter without doing or permitting to be done any unnecessary or avoidable damage to the surface of the said lands or the crops buildings structures or other property thereon for the purposes of this clause operations shall include the erection of machinery laying of a tramway or construction of a road in connection with the mine.

4. The lessee/lessees shall make and pay such reasonable satisfaction and compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage injury or disturbance which may be done by him/ them in exercise of the powers granted by this lease and shall indemnify and keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.

5. The lessee/lessees shall during the subsistence of this lease, well and sufficiently secure and keep open with timber or other durable means all pits shafts and workings that may be made or used in the said lands and make and maintain sufficient fences to the satisfaction of the State Government during every such pit

Kothiwall

(70)

R.C. BANSAL
Mining Engineer

of the lease, etc., that the leaseholder and shall be the responsibility of the lessee in respect of the leasehold area to be held by the lessee for the period of the lease.

2. The lessee shall strengthen his property to the satisfaction of the Railway Authorities or Government of the State Government or the lessee may pay to the lessee a sum which is necessary to make such strengthening necessary for the safety of the dam, reservoir, canal and a works of public convenience.

3. The lessee shall allow any officer authorized by the Central Government or by the Govt. In that behalf, entry upon the premises for carrying any legal or excavation or land comprised in the lease for the purpose of inspecting, examining, surveying, prospecting and making plans thereof, marking and collecting a sample and the lessee lessor shall with proper person employed by the lessor lessor and acquainted with the names and work effectively assist the officer, Agents, Servants and workmen in conducting every such action and shall afford them all facilities information connected with them the working of the mines which there may, reasonably require and also shall and will conform to and observe all or any regulations which the Central and State Government or the results of such inspection or otherwise may from time to time be fit to impose (No. M-II 169, 44, 61 dt. 20.6.1.

4. The lessee shall without delay send to the Deputy Commissioner Collector a report in any event causing death or serious bodily injury or serious injury to property or seriously affecting or endangering life or property which may occur in the course of the operations under this lease.

5. The lessor lessor shall report to the State Government the discovery in the leased area of any mineral not specified in the lease within sixty days of such discovery along with full particulars of the nature and position of each such find. If any mineral not specified in the lease is discovered in the leased area, the lessor lessor shall not win and dispose of such mineral unless such mineral is included in the lease or a separate lease is obtained therefor.

6. The lessor lessor shall at all times during the said term keep or cause to be kept at an office to be situated upon or near the said lands, correct and intelligible books of accounts which shall contain entries showing from time to time,

- (1) Quantity and quality of the said mineral/minerals realized from the said lands.
- (2) Quantity of the various qualities of ores beneficited or converted (for example coal converted into coke).
- (3) Quantities of the various qualities of the said mineral/minerals sold and exported separately.
- (4) Quantities of the various qualities of the said mineral/minerals otherwise disposed of and the manner and purpose of such disposal.
- (5) The prices and shall other particulars of all sales of said mineral/minerals.
- (6) The number of persons employed in the mines or works or upon the said lands specifying nationality, qualifications and pay of the technical personnel.
- (7) Such other facts, particulars and circumstances as the Central or the State Government, may from time to time require and shall also furnish free of charge to such officers and at such times as the Central and State Government may appoint true and correct abstract of all or any such books of accounts and such information and returns to or any of the matters aforesaid as the State Government may prescribe and shall at all reasonable

Kathal

1/10/12

713

allowable to the lessee/lessees to the Central Government for examination and in that behalf the lessee/lessees shall have access to the said offices for the purpose of examining and inspecting the said books of accounts, plans, surveys and technical copies, thereon, and make copies thereof.

11. The lessee/lessees shall at all times during the said term maintain at the mine office constructed in the said day and complete plans and sections of the mine in the said office, which shall show all the operations and workings and all the trenches, pits and workings made by him/them in the course of operations carried on by him/them under the said lease, and other disturbances encountered and geological data and all such plans and sections shall be amended and filled in by and from actual surveys to be made for that purpose at the end of twelve months or any period specified from time to time and the lessee/lessees shall furnish free of charge to the Central and State Governments true and correct copies of such plans and sections where required accurate records of all trenches pits and drilling shall show.

- (a) The sub soil and strata through which they pass.
- (b) Any mineral encountered.
- (c) Any other matter of interest and all data required by the Central and State Government from time to time.

The lessee/lessees shall allow any officer of the Central or the State Government authorised in this behalf by the Central Government to inspect the same at all reasonable times. He/they shall also supply when asked for by the State Government the Coal Controller (ir. East), Geological Survey of India Bureau of Mines a composite plan of the area showing thickness, dip, inclination etc. of all the seams as also the quantity of reserves quality-wise.

12. The lessee/lessees shall be bound by such rules as may be issued from time to time by the Government of India under Section 18 of the Mines and Minerals (Regulation and Development) Act 1957 (Act 67 of 1957) and shall not carry on mining or other operations under the said lease in any way other than as prescribed under these rules.

13. Unless specifically exempted by the State Govt, the lessor/lessors shall provide and at all times keep at or near the pit head or each of the pit heads at which the said minerals shall be brought to bank a properly constructed and efficient weighing machine and shall weigh or cause to be weighed thereon all the said minerals from time to time brought to bank, sold, exported and converted and also the converted products and shall at the close of each day cause the total weight, ascertained by such means of the said minerals, ores products raised, sold, exported and converted during the previous twenty four hours to be entered in the aforesaid books of accounts. The lessee/lessees shall permit the state Government at all times during the said term to employ any persons to be present at the weighing of the said minerals as aforesaid and to keep accounts thereof and to check the accounts kept by the lessee/lessees. The lessor/lessors shall give ~~one~~ ^{one} days previous notice in writing to the Deputy Commissioner Collector or every such measuring or weighing in order that some officer on his behalf may be present therat.

14. The lessee/lessees shall allow any person or persons appointed in that behalf by the said Government at any time or times during the said term to examine and test every weighing machine to be provided and kept by the aforesaid and the weights used therewith in order to ascertain whether the same respectively are correct and in good repair and order and if upon any such examination or testing, any such weighing machine or weights shall be found incorrect or out

15. In either the said Government may require that the same be submitted, repaired or put in order for the use of the miners and if such requisition be not complied with within fourteen days after the same shall have been made, the State Government may cause such weighing machine or weights to be obtained repaired, and put in order and the expense of so doing shall be paid by the lessee subject to the state Government on demand and if upon any such examination as aforesaid any error shall be discovered in any weighing machine or weights to the prejudice of the State Government such error shall be repaired at the cost exacted for three calendar months previous to the day when the last examination of examination and so that the same weighing machine and weights in case such error shall be within such period of three months and the said rent and royalty shall be paid accordingly.

16. The lessees shall make and pay reasonable satisfaction and compensation for all damage injury or disturbance of person or property situated both in private and Government land which may be done by or on the part of lessees in exercise of the liberties and power granted by these presents and shall at all times save harmless and keep indemnified the State Govt from the and against all suits, claims and demands which may be brought or made by any person or persons in respect of any such damage, injury or disturbances, in case of Govt. land the lessees shall grant compensation equal to sixty or ninety times of land & venue (that may be assessed in case it has not been assessed) in case of lease upto 10 and 30 years respectively.

16. The lessees will exercise the liberties and powers hereby granted in such a manner as to offer no unnecessary or reasonably avoidable obstruction or interruption to the development and working within the said lands of any minerals not included in this lease and shall at all times afford to the Central and State Government and to the holders of prospecting Licences or Mining Lease in respect of any such minerals within any land adjacent to the said lands or the said lands as the case may be reasonable means of access and safe and convenient passage upon and across the said lands to such minerals for purpose of getting working developing and carrying away the same provided that the lessees shall receive reasonable compensation for any damage or injury which he they may sustain by reason of a consequence of the use of such passage by such lessee or holders of prospecting licences.

17. (1). The lessor/Lessers shall not, without the previous consent in writing of the State Government:-

- (a) assign, sublet, mortgage or in any other manner transfer the Mining Lease or any right title or interest therein, or
- (b) enter into or make any arrangement, contract or understanding whereby the lessee/lessees will or may be directly or indirectly financed to a substantial extent by, or under which the lessees, operations or undertakings will or may be substantially controlled by, any person body of persons other than lessor/Lessers.

Noticed that the State Government shall not give its written consent unless-

- (a) the lessor has furnished an Affidavit along with his application for transfer of the Mining Lease specifying therein the amount that he has already taken or proposes to take as consideration from the transferee.
- (b) the transfer of the Mining lease is to be made to a person or body directly undertaking Mining operations.

Kattilak

21/01/2012

(2) Without prejudice to the above provisions, the lessor/lessors may, subject to the conditions laid down in the Schedule 10 rule 10 of the said Rules transfer the lease or any right, title or interest therein, to a person holding a certificate of approval and an Income-tax clearance Certificate from the Income-tax Officer concerned, for payment of a sum of Rupees one Hundred to the State Government.

Provided that the lessor/lessors shall make available to the transferee the original or certified copies of all plans of abandoned working in the area and in a belt 65 metres wide surrounding it.

Provided further that where mortgage is an institution or a bank or a Corporation specified in Schedule V, it shall not be necessary for any such institution or bank or Corporation to hold the said certificate or Approval and the said Income-tax clearance certificate.

(3) The State Government may, by order in writing determine the lease at any time if the lessee/lessors has/have in the opinion of the State Govt. committed a breach of any of the above provisions or has/have transferred the lease or any right, title or interest therein otherwise than in accordance with clause (2) provided that no such order shall be made without giving the lessee/lessors a reasonable opportunity of stating his/their case.

18. The lessee shall not be controlled and the lessee/lessors shall not allow themselves to be controlled by any trust, syndicate, Corporation, Firm or person except with the written consent of the Central Govt. the lessee/lessors shall not enter into or make any arrangement compact or understanding whereby the lessee/lessors will or may be directly or indirectly financed by or under which the lessee/lessors operations or undertaking will or may be carried on directly, by or indirectly, or for the benefit of or subject to the control of any Trust, Syndicate, Corporation, Firm or person unless with the written sanction given prior to such arrangement compact or understanding being entered into or made of the Central Government and any or every such arrangement compact or understanding as aforesaid (entered into or made with suction as aforesaid) shall only be entered into or made and shall always be subject to an express condition binding upon the other party or parties thereto that on the occasion of a State of Emergency of which the president of India in his discretion shall be the sole judge it shall be terminable if so required, in writing by the State Government and shall in the event of any such requisition being made be forth with thereafter determined by the lessee/lessors accordingly.

19. Whenever the security deposit of Rs. 1,000/500 or any part thereof or any further sum hereafter deposited with the State Government in replenishment thereof shall be forfeited or applied by the Central or State Govt. pursuant to the power hereinabove declared in that behalf the lessee/lessors shall deposit with the State Government such further sum as may be sufficient with the unappropriated part thereof to bring the amount in deposit with the State Government upto the sum of Rs. 1,000/500.

20. The lessee/lessors shall at the expiration or sooner determination of the said term or any renewal thereof deliver upto the State Government all mines, pits, shafts, inclines, drifts, levels, water, ways, airways and on or under the said land, except such as have been abandoned with the sanction of the State Government and in an ordinary and fair course of working all engines, machinery, plant buildings, structures, other works and Conveniences which at the commencement of the said term "whatever or under that said land and all such machinery set up by the lessee/lessors below ground which cannot be removed without causing injury to the mines or work under the said mines (except such of the same as may with sanction -

Father

C 11619

U.P.
R.C. BANSAL
Mining Engineer

of the said lands which have been granted, shall be the capital and structure of works and structures erected by the lessees/lessees above mentioned, and shall remain the property of the State Government for the further works of the said lands, and mineral.

21. (a)

The State Government shall from time to time and at times during the said term have the right to be exercised by notice in writing to the lessee/lessees giving or on any of the said lands, herein defined or elsewhere under the control of the lessee/lessees and the lessee/lessees shall with all possible expedition deliver all minerals or products of minerals purchased by State or pre-emption of the said minerals and all products Government under the power conferred by this provision in the quantities at the times in the manner and at the place specified in the notice exercising the said right.

(b) Should the right of pre-emption conferred by this present provision be exercised and vessel chartered to carry the minerals or products thereof procured on behalf of the State Govt. or the Central Govt. be detained on demurrage at the port of loading the lessee/lessees shall pay the amount due for demurrage according to the terms of the chartered party of such vessel unless the state Government shall be satisfied that the delay is due to causes beyond the control of the lessee/lessees.

(c) The price to be paid for all minerals or products of minerals taken in pre-emption by the State Govt., in exercise of the right hereby conferred shall be the fair market price prevailing at the time of pre-emption PROVIDED THAT in order to assist in arriving at the said fair market price the lessee/lessees shall if so required furnish to the State Government for the confidential information of the Government particulars of the quantities, descriptions and prices, of the said minerals or products thereof sold to other customers and of charters entered into for freight or carriage of the same and shall produce to such officer or officers as may be directed by the State Govt. original or authenticated copies of contracts and charter parties entered into for the sale of freightage of such minerals or products.

(d) In the event of the existence of a state of war or emergency (of which existence, the President of India shall be the sole judge and a notification to this effect in the Gazette of India shall be conclusive proof), the State Government with the consent of the Central Govt. shall from time to time all times during the said term have the right (to be exercised by a notice in writing to the lessee/lessees) forth with take possession and control of the works plant, machinery and premises of the lessee/lessee on or in connection with the said lands, or operation under this lease and during such possession or control, the lessee/lessees shall conform and obey all directions given by or on behalf of the Central Government or State Government regarding the use or employment of such work plants, premises and minerals PROVIDED that fair compensation which shall be determined in default of Agreement by the state Government shall be paid to the lessee/lessees for all loss or damage sustained by him/them by reason or in consequence of the exercise of the power, conferred by this clause and PROVIDED also that the exercise of such powers shall not determine the said term hereby granted or effect the terms and provisions of these present further than may be necessary to give effect to the provisions of this clause.

21A-Subject to the right of the state Govt. and the obligation of the lessee under clause 21 above the lessee hereby undertakes that, in respect of all fluxet bearing gread limestone (dolomite/marble) that is with acid insolubles of Alumine and Silica less than 15 Percent he shall win from the leased area, the lessee shall—

Kothiwall

9/9/12

(74)

R. C. BANSAL
Mining Engineer

(ii) after the option of purchase by the Hindustan Steel Limited at such price and other terms and conditions aforesaid, the lessor and the said Hindustan Steel Limited may be allowed an option to lease out the said property from the lessee at such price and terms as may be reasonable than is prevalent in the particular area of the property and

(iii) In the event of the said Hindustan Steel Limited not exercising their first option in the particular area after the second option of purchase to any other steel plant in the country, at such price and other terms as may be agreed upon between the lessor and such other steel plant before otherwise disposing of the same during the lease.

(iv) In the event of any disagreement or dispute arising between the lessor and the said Hindustan Steel Limited or other steel plant relating to the price or any other terms or any other matter relating to the exercise of the options aforesaid, the point of dispute shall be referred to the State Government for decision provided further that in case the lessor or the said Hindustan Steel Limited (or other steel plant) is still aggrieved by the decision of the State Government on such point the matter shall be referred to the Secretary to the Government of India in the ministry of Mines and Fast and the decision of the said Secretary or any other officer nominated by him for the purpose, as the case may be, shall be final and binding on all concerned.

22. The lessors shall not employ, in connection with the mining operation any person who is not an Indian national except with the previous approval of the Central Govt.

23. If any of the works or matters which in accordance with the covenants in that behalf herein before contained are to be carried or performed by the lessee/lessors be not so carried out or performed within the time specified in that behalf, the State Government may cause the same to be carried out or performed and the lessee/lessors shall pay the State Govt. on demand all expenses which shall be incurred in such carrying out or performance of the same and the decision of the State Govt. as to such expenses shall be final.

24. The lessor/lessors shall furnish.

(a) All geophysical data relating to Mining field or engineering and ground water surveys, such as anomaly map, sections, plans, structures, structures, contour maps, logging collected by him/them during the course of mining operations to the Director, Geological Survey of India, Calcutta.

(b) All information pertaining to investigations of radio active minerals collected by him/them during course of Mining operation to the Secretary, Department of Atomic Energy, New Delhi.

Data or information referred to above shall be furnished every year reckoned from the period of the Mining lease.

PART VIII

The Covenants of the State Government

1. The lessee/lessors Paying the rents, water rate and royalties hereby reserved and observing and performing all the covenants and agreements herein contained and on the part of the lessor/lessors to be observed and performed shall and may quietly hold and enjoy the right and premises hereby demised for and during the term here by granted without any unlawful interruption from or by the State Government any person rightfully claiming under it.

Kattur

Ref 19

(E)

1. In consideration of the payment of Clause 3 of Part VI of the Schedule the lessor/lessors shall also be entitled to occupancy of the surface of any part of the said land compensation for any damage or loss which may arise from the proposed operation of the lease areas and the lessor/lessors shall refuse his consent to the exercise of the right and power conferred by the State Govt. deenised to the lessor/lessors by them in rent and the lessor/lessors shall report the matter to the State Govt. and shall deposit with the amount of compensation offered as fair and reasonable or if it is not so satisfied and the lessor/lessors shall have deposited with it such further amount as the State and Central Government shall order the occupier to allow the lessor/lessors to enter the land and to carry out such operations as may be necessary for the purpose of this lease to assess the amount of such compensation the State Government shall be guided by the principles of the Land Acquisition Act.

2. Where the Mining lease relates to any mineral not specified in the First Schedule to the Act, it shall be renewable for one period not exceeding the period specified in sub Section (2) of section (8) at the option of the lessor/lessors.

Provided that the State Government may for reasons to be recorded in writing reduce the area applied for.

If the lease is in respect of minerals specified in First Schedule to the Act renewal will be subject to the prior approval of the Central Government.

If the lessor/lessors be desirous of taking a renewed lease of the premises hereby demised or of any part or parts of them for a further term from the expiration of the term hereby granted and is otherwise eligible, he/she shall, prior to the expiration of the last mentioned term give to the State Govt. six calendar months previous notice in writing and shall pay the rents, rates and royalties hereby reserved and shall observe and perform the several covenants and agreements herein contained and on the part of the lessor/lessors to be observed and performed up to the expiration of the term hereby granted. The State Govt. on receipt of application for renewal, shall consider it in accordance with rule 28 of the said rules and shall pass orders as it deems fit. If renewal is granted the State Govt. will at the expense of the lessor/lessors and upon his executing and delivering to the State Govt. if required a counterpart thereof execute and deliver to the lessor/lessor a renewed lease of the said premises or part thereof for the further term... ~~.....~~ years at such rents, rates and royalties and on such terms and subject to such covenants and agreements, including this present covenant to renew as shall be in accordance with the mineral concession Rules 1960, applicable to.... ~~.....~~ (Names of minerals) on the day next following the expiration of the term hereby granted.

4. The lessee/lessees may at any time determine this lease by giving not less than 12 calendar month notice in writing to the State Government or to such officer, or authority as the State Govt. may specify in this behalf and upon the expiration of such notice provided that the lessee/lessees shall upon such expiration render and pay all rents, water rates, royalties, compensation for damages and other moneys which may then be due and payable under these presents to the lessor or any other person or persons and shall deliver these present to the State Government then this lease and the said term and the liberties, powers and privileges hereby granted shall absolutely cease and determine but without prejudice to any right or remedy of the lessor in respect of any breach of any of the covenants or agreements contained in these presents.

(4A) The State Govt. may on an application made by the lessee permit him to surrender one or more minerals from his lease which is for a group of minerals on the ground that deposits of that mineral have since exhausted or depleted to such an extent that is no longer possible to work the mineral economically, subject to the condition that the lessee...

Kattail

1/1/19

(a) makes a application for and acquisition of mineral at least six months before the intended date of surrender and

(b) gives a certificate that he will not cause any hindrance in the working of the mineral so transferred by any other person who is subsequently granted a mining lease for that mineral. (S.M. 11, 15, 8161, 11-4-12-8)

5. On or before the date the State Government may elect within calendar months after determination of the lease or of any renewal thereof of the amount of the security deposit paid in respect of this lease and then remaining in deposit with the State Government and not required to be applied to any of the purpose mentioned in this lease shall be refunded to the leasee/lessor. No interest shall run on the security deposit.

PART IX

General Provision

1. In case the lessee/lessees or his/hers transferee assignee does not allow entry or inspection by the officers authorised by the Central or State Govt. under clauses (3), (i) or (1) of sub rule (1) of rule 27 of said Rules the State Govt. shall give notice in writing to the lessee/lessees requiring him them to show cause within such time as may be specified in the notice why the lease should not be determined and his/hers security deposit forfeited, and if the lessee/lessees fails/fall to show cause within the aforesaid time to the satisfaction of the State Government the State Govt. may determine the lease and forfeit the whole or part of the security deposit.

2. If the lessee/lessees or his/hers transferee or assignee makes/make any default in payment of rent or water rate or royalty as required by Section 9 of the Act or commits a breach of any of the conditions and covenants other than those referred to in clause (1) above, the State Government shall give notice to the lessee/lessees requiring him/them to pay the rent water rate, royalty or remedy the breach as the case may be within sixty days from the date of receipt of the notice and if the rent, water rate and royalty are not paid or the breach is not remedied within such period, the State Government may without prejudice to any proceedings that may be taken against him/them, determine the lease and forfeit the whole or part of the security deposit.

3. In cases of repeated breaches of covenants and agreements by the lessee/lessees for which notice has been given by the State Government in accordance with clauses (1) and (2) aforesaid on earlier occasion, the State Government without giving any further notice, may impose such penalty not exceeding twice the amount of the annual dead rent specified in clause 2, part V.

4. Failure on the part of the lessee/lessees to fulfil any of the terms and conditions of this lease shall not give the Central or State Government any claim against the lessee/lessees or be deemed breach of this lease, in so far as such failure is considered by the said Government to arise from force majeure, and if through force majeure the fulfilment by the lessee/lessees of any of the terms and conditions of this lease be delayed, the period of such delay shall be added to the period fixed by this lease in this clause the expression "Force majeure" means Act of God, war, insurrection, riot, civil commotion, strike, earthquake, tide, storm, tidal wave flood, lightning, explosion, fire, earthquake and any other happening which the lessee/lessees could not reasonably prevent or control.

5. The lessee/lessees having first paid and discharged the rents, and royalties payable by virtue of these Presents may at the expiration or sooner determination of the said term or within six calendar months thereafter (unless the lease shall

Kattika

(S.7)

R.C. BENGAL
Mining Engineer

to be determined under clauses 1 and 2 of this part and in that case at any time and less than three calendar months not more than six calendar months after such determination taken down — in respect of his own benefit all or any engines, machinery, plant, buildings, plant, machinery, railway and other works, structures and fixtures which may have been erected, set up or placed by the lessee upon or within the said lands and which by law or license are not bound to deliver to the said Government under a clause of part VII of this Schedule and which the State Government shall not desire to purchase.

6. If at the end of six calendar months after the expiration or sooner determination of the said term under the provision contained in clause 4 of part VIII of this Schedule become idle, the same shall remain foot upon the said land any engine, machinery, plant, buildings, structures, tramways, railways and other works erected, and conveniences or other property which are not required by the lessor/lessers in connection with operations in any other lands held by him/them under prospecting licence or mining lease the same shall if not removed the lessee/lessees within one calendar month after notice in writing requiring their removal has been given to the lessee/lessees by the State Government be deemed to become the property of the State Government and may be sold or disposed of in such manner as the State Government shall deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.

7. Every notice by these presents required to be given to the lessee/lessees shall be given in writing to such person resident on the said lands as the lessor/lessors may appoint for the purpose of receiving such notices and if there shall have been no such appointment then every such notice shall be sent to the lessee/lessees by registered post addressed to the lessee/lessees at the address recorded in this lease or at such other address in India as the lessee/lessees may from time to time in writing to the State Government designate for the receipt of notices and every such service shall be deemed to be proper and valid service upon the lessee/lessees and shall not be questioned or challenged by him.

8. If in any event the orders of the State Government are revised, reviewed or cancelled by the Central Government in pursuance of proceedings under Chapter VII of the Mineral Concession Rules, 1960 the lessee/lessees shall not be entitled to compensation for any loss sustained by the lessee/lessees in exercise of the powers, and privileges conferred upon him/them by these presents.

9. For the purpose of stamp duty the anticipated royalty from the demise² land is Rs 1648.54/- per year.

In WITNESS WHEREOF these presents have been executed in the manner
hereunder appearing the day and year first above written.

Signed by—

for and behalf of the Governor/President of India

in the presence of—

1996年1月1日施行

I know Smt. S.R. Patkar
she has signed before
me. (Folio 1)

Digitized by Google

R.C. BANSAL
Mining Engineer



To go with the mining lease
agreement for lime stone over an area
of 91.22 Acres or 38.129 Hectars in village
Satara, Taluk Raghurajnagar Distt. Sahib
executed between Shri Shrawan Kumar Pathak
Somnath Chowk Satara and the Govt. of Mys.
through the Collector Sahib. F. 130 31

ccccc

Rathal

(S. K. Pathak)


R.C. BANGAL
Mining Engineer

(51)

ANNEXURE – 3

State Govt. Letter

कार्यालय
संचालक औरिनियोगी तथा स्थानिकगम
मध्यप्रदेश
 २९-ए, 'उत्तरेज भरल', अरेहा हिल्स, भोपाल
 फोन नं. फैक्स : ०७५५-२५५१७९५
 E-mail : dirgeomn@mp.nic.in

क्रमांक एक ३-१०४, १९९५/१२/१ भोपाल, दिनांक

प्रति,

रिजनल कन्ट्रोलर ऑफ माझ्बस,
 भारतीय खान ब्लूरो,
 योजना क्रमांक ११, कमला नेहरू नगर,
 जबलपुर (मध्यप्रदेश)

विषय :- जिला सतना के नाम सतरी के रुक्या ९४.२२ एकड़ क्षेत्र पर खनिपट्टा नवकरण। आवेदक थी श्वरण कुमार पाठक।

संदर्भ :- कार्यालय कलेक्टर (छाति शास्त्र) जिला सतना का पत्र क्रमांक ६२६ दिनांक २८.०२.२०१७

//०//

उपरोक्त विषयातंत्रित संदर्भित पत्र (छाति शास्त्र) का अबलोकन हो, पत्र के माध्यम से कलेक्टर जिला सतना द्वारा लेख किया गया है, कि नाम सतरी तहसील रामपुरबाधेलान खासरा क्रमांक ९०२, ९०३ के रुक्या ९४.२२ एकड़ क्षेत्र पर छिंज धूनापत्थर आदेश क्रमांक ५९/४४१/१२ दिनांक १९.०१.१९७३ को तुआ था, शासन द्वारा रोक लगाये जाने पर अनुबंध वा पंजीयन नहीं हो सका। राज्य शासन द्वारा वर्ष १९८१ में रोक हटाये जाने पर अनुबंध लिप्यादन दिनांक १२.०१.१९८१ से ११.१०.२००१ तक स्थीरूप किया गया था। यन्मण्डलाधिकारी वज्र मण्डल सतना द्वारा मावलीय सर्वोच्च व्यायालय द्वारा दिनांक १२.१२.१९९६ को पारित आदेश के पालन में उक्त खनिपट्टा को वन संरक्षण अधिकायम १९८० प्रभावशील होने से बंद की थेणी में होना बताया गया। खनिपट्टा अवधि दिनांक १२.१०.१९८१ से ११.१०.२००१ तक होने से पट्टाधारी द्वारा दिनांक ०८.०३.२००० को नवकरण आवेदन पत्र प्रस्तुत किया गया था।

नवकरण आवेदन पत्र के संबंध में खिंज साधन विभाग के आदेश दिनांक १.४.०३.२००८ के बन संरक्षण अधिकायम १९८० प्रभावशील होने से बन एवं पर्यावरण नंप्रालय भारत सरकार से अनुमति होने के पश्चात खनिपट्टा नवकरण की कार्यवाही की जावेजी एवं उक्त नवकरण आवेदित क्षेत्र को विभागीय ज्ञापन दिनांक २२.०६.२००६ में निहित प्रावधानों के अनुसार वन भूमि के व्यपवर्तन की सैन्धुरितक सहमति प्रदान की जाई है। वन भूमि के संबंध में वन संरक्षण अधिकायम १९८० के विधारित मापदण्डों के कार्ज-अ के भाग एक के साथ माझ्बिंग प्लान सम्मालित करना अविवार्य होने का लेख किया गया है।

राजस्वलालय के पत्र दिनांक 14.02.2016 को छारा दोष तज मूर्मि होवे हो रहे हैं। राजसंरक्षण अधिनियम 1980 के प्रावधानों के अदीन दल मूर्मि व्यपवत्तेन की अनुमति एवं अनुमोदित राजन योजना तैयार का प्रस्तुत करने देते लेख किया गया था, जो कि अपार्क है। पट्टवारी छारा पत्र दिनांक 14.02.2017 में होख किया गया है, कि उन मूर्मि होवे से उन रांकण अधिनियम 1980 के प्रावधान होने से प्रकरण दल विभाग में लंबित होने का लेख किया गया है।

संलग्न- उपरोक्ताब्दार

-5/-

38/7-18

संचालक

प्रतिलिपि- एक 3-104/1995-12/1
 1. कलेचर (अनिज शाखा) जिला सतना (मध्यप्रदेश) की ओर सूचनार्थ प्रेषित। 9/13/17
 2. श्री बद्रा बुमार पाठ्क निवासी दाणवापुरी कॉलोनी, सतना की ओर सूचनार्थ प्रेषित।

Umesh
संचालक

R.C. BANERJEE
Mining Engineer

1924/25, श्रीगंग
ग्रामीण लकड़ी लिमिटेड
मजलय

आदेश

गोपाल, दिनांक 11-5-08

कमाक-एफ-३-१८५-९५-१२। यह कि श्री धरण कुमार पाठक व्यापार जिला सतना के याम सतरी के खसरा नदीर ७०२ का ८२.४२ एकड़ एवं खसरा क्रमांक ७०३ के रकवा ११८० एकड़ कुल रकवा ७१.२२ एकड़ शीत्र पर चूनापत्त्वर खनिज का अनिपटा दिनांक १२.१०.८१ से ११.१०.२००१ तक के लिये स्वीकृत था।

यह कि आदेशक पटटमारी भी श्रवण कुमार पाठक व्यापार नियमानुसार दिनांक ०६.५.२००० को खनिपटा नक्कहा आदेशन पत्र प्रस्तुत किया है।

यह कि आदेशक जै पत्र न पूर्य स्वीकृत शंच कग्नभूमि होने से वग सखाण अधिनियम १९८० प्रभावशील होने से वन एवं पर्यावरण मजलय भारत सरकार से अनुमति प्राप्त होने उपरात ही नवीनीकरण की कार्यवाही की जा सकेगी।

४. आदेशित शंच ने चूनापत्त्वर खनिज की उपलब्धता प्रमाणित होने एवं राज्य शासन के राजस्व के हित को दृष्टिगत रखते हुये जिला सतना के याम सतरी के कुल रकवा ७१.२२ एकड़ शीत्र पर विभागीय जापन दिनांक २२.६.२००६ में निहित प्राविद्यानों के अनुसार वन भूमि के व्यववत्तन की सेवातिक सहमति प्रदान की जाती है। वन भूमि के संबंध में वन सखाण अधिनियम १९८० के तहत अनुमति प्राप्त होने उपरात ही नवीनीकरण की कार्यवाही की जा सकेगी।

५. धूकि वन विभाग की गाहड़ लाईन अनुसार वनसंख्या अधिनियम १९८० के नियमानुसार वन विभाग के फार्म-अ के भाग-एक के साथ माहीनेग प्लान समिलित करना अनियार्थी है। अत तदनुसार माहीनेग प्लान प्रस्तुत चारने की कार्यवाही की जाव।

मध्यप्रदेश के राज्यपाल के नाम से
तथा आदेशानुसार

१५५५
(एस. के. शिवानी)
अदेश सचिव,

म.प्र.शासन, खनिज साधन विभाग

-2-

R. C. BANSAL
Mining Engineer

नोट्स नं. ३०८
दृष्टिनीम

नोट्स नं. ३०८
१५.३.०८

- १ कलीबटर जिला सतना (मध्य)
- २ सचालक, भौमिकी तथा खनिकम म०प्र० भौपाल।
- ३ बन मण्डलाधिकारी, जिला सतना (म०प्र०)
- ✓ ४ श्री अद्यन कुमार पाठक, चाणक्यपुरी, संमरिया चौक जिला सतना की ओर स्वचनार्थ एवं आवश्यक कार्रवाई हेतु।
- ५ गाड़ फाईल।

✓
R.C.BANSAL

अवृत्त सचिव
मध्यप्रदेश शासन खनिज साधन विभाग
२०१८

R.C. BANSAL
Mining Engineer

कायांलिय
हैंपातनालय भौमिकी एवं खनिकर्म
देवीय कायांलिय रीवा म० प्र०

"काल्य धुमाण- पत्र "

"वन भूमि के झासपास भूमि में खनिक उपलब्धता न होने वाले"

कायांलियीन अभियोजक एवं तथा निरीक्षण के अनुसार ग्राम- सतरी आ० ८०२, ४०३राष्ट्रा०४१२९ हैटेपर लहरील रामधूर छोड़ान जिला सतना में स्थित है । आधेदक श्री श्रवण कुमार पाठक सतना को खनि पट्टा में यूना पराधर खनिक के लिए उदीकृत है, जो कि वन देव में स्थित है । इससे लगी राजस्व देव में उक्त खनिक की उपलब्धता नहीं है एवं मार्ग न्यूनतम् है देव नवीनीकरण की अनुद्देश्य की जाती है ।

✓
देवीय प्रमुख

हैंपातनालय भौमिकी तथा खनिकर्म
देवीय कायांलिय रीवा म० प्र०

रीवा दि ०४-१२०१

१२४-२५

पृ. श्री भौमिकी/ राष्ट्रा नि. २००।

प्राप्तिशिवि:-

१- खनि अधिकारी सतना

✓ २- आधेदक श्रवण कुमार पाठक सतना

उनके आधेदन के सार्वत्रम् में

✓
देवीय प्रमुख

हैंपातनालय भौमिकी राहि खनिकर्म

देवीय कायांलिय रीवा म० प्र०

R.C. BANSAL
Mining Engineer

ANNEXURE – 4

Photo ID & Address proof of Owner

भारत सरकार



श्रवण कुमार पाठक

Shrawan Kumar Pathak

जन्म तिथि/DOB: 17/10/1941

पुरुष / MALE



9460 7365 5764

आद्या - आम आदमी का अधिकार

भारतीय विशिष्ट पहनान प्राधिकरण

पता:

S/O मूलचंद पाठक, 18,
गांव नं. 01, सेमरिया चौक,
बाणक्षयपुरी कळिनीनी,
रायगढ़ ज़िलह, मतना,
मध्य प्रदेश - 485005

Address:

S/O Mukund Pathak, 18, Gali No.
01, Semariya Chowk, Chankiyapuri
Colony, Raghunathgarh, Satna
Madhya Pradesh - 485005

9460 7365 5764

Aadhaar-Aam Admi ka Adhikar

ANNEXURE – 5

Photographs

Photographs of Mine



(93)


R.C. BANSAL
Mining Engineer

Photographs of Mine



94

R.C. BANSAL
Mining Engineer

ANNEXURE – 6

Certificate of Person preparing Mining Plan



बैचलर ऑफ साइंस (माइनिंग इंजीनियरिंग)

रामचन्द्र बन्सल

बनारस हिंदू विश्वविद्यालयस्य २०२० शततमे संवत्सरे परीक्षायां

श्रेष्ठां समुत्तर्य बैचलर ऑफ साइंस
माइनिंग इंजीनियरिंग) पदवीं प्राप्तवानिति प्रमाणायति ।

— * —

Banaras Hindu University
Bachelor of Science
(Mining Engineering)

This is to certify that Ramchandra Bansal

ained the degree of Bachelor of Science (Mining
Engineering) in this University in the Examination
1963 and that he was placed in

Class

R.C. BANSAL
Mining Engineer

दिन: द्वेष शून्य र संगतार २०२० लि. सं.

— Yashwant —



F

GOODYEAR INDIA LIMITED

FACTORY : BALLABGARH - DIST. BURDIAON (HARYANA)
ADDRESS WINGFOOT BALLABGARH - TELEPHONE BALLABGARH 28601-28606 TELEX 581-270

011-28601-28606-5083-SR

December 22, 1972

Mr R C Bansal,
Chief Administrative Officer,
Samla Group of Collieries,
Swadeshi Mining & Mfg. Co. Ltd.,
Pandavpur,
Dist. Burdwan.

Dear Mr Bansal,

It was indeed a pleasure to have visited your Collieries and we returned back to Delhi with a fund of information which we would normally not have had.

On behalf of the group, I thank you very much.

Sincerely yours,

S R Srinivasan
ccr:bma


Manager - Purchasing

DATE

16/12/72

No contract Valid unless signed by an officer of the Company
Registered Office : 60, Chawringhee Road, Calcutta-20


R.C. BANSAL
Mining Engineer



BROTHERS COAL CO.

PHONE: 107-628
OFFICE: 107-628
RESIDENCE: 14-608

CHANDIGARH,
PUNJAB,
INDIA CITY.

P-40, PRINCIPAL STREET,
CALCUTTA-13.

Dated 13.12. 1972

Dear Mr. Bansal,

I would like to thank you on behalf of Mr. Srinivasan, Mr. Hariharan, Mr. Chawla and myself for your kind co-operation and inimitable hospitality extended to us during our visit to Samla Group of collieries. The visit was extremely educative and informative and I am sure that all of us have learnt a lot from you.

Hoping to see you on your next visit to Calcutta.

Yours sincerely,

Anil Kumar

(A.K. Sikri)

Mr. R.C. Bansal,
Chief Administrative Officer,
Samla Group of collieries,
M/s. Swadeshi Mining & Mfg. Co.Ltd.,
P.O. Pandeshwar,
Dist. Burdwan

SIAL GHOGRI COLLIERY

COLLIERY OWNERS:
SIAL GHOGRI GROUP
Musam Road, GORI LOKER, JAMMU

P. C. BANSAL
CENTRAL RAILWAY,
DURG, CHHINNWARA (H.P.)

24. 2. 1970

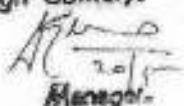
TO WHOM IT MAY CONCERN

This is to certify that Shri R.C. Bansal has been in employment in this organization since 18th August, 1969 as Safety Officer. He is an energetic and hardworking young man and is capable of taking all sorts of strenuous job in mines. It is exclusively due to his efforts that the mine stood Second during Mine Safety Week 1969. In addition he can very well deal with the labour and their problems.

On several occasions he has acted as manager of all the mines of Sial Ghogri Colliery to my full satisfaction.

This testimonial is issued to him this day at the time of leaving this colliery. I wish him success in life.

Sial Ghogri Colliery.


Manager.


P.C. BANSAL
Mining Engineer

GOVERNMENT OF INDIA
MINISTRY OF LABOUR & EMPLOYMENT.
OFFICE OF THE CHIEF INSPECTOR OF MINES.

Certificate of Practical Experience Granted by the Manager to a
Candidate for a Coal Mines Manager's Certificate of Competency
Examination.

I, H. Roy Burman being the Manager of Samla Kendra Colliery
belonging to M/s. Pandeshi Mining & Mfg. Co. Ltd., P.O. Pandaveswar
(Burdwan) do hereby certify that Shri R. C. Bansal, Son of Late
H.L. Bansal of Pandaveswar (whose signature is appended) worked in
the above mine as an Asst. Manager/Training Officer from 8.6.70 to
8.11.72 and is still continuing as such. During his term of service,
aforesaid, he has obtained practical experience as detailed overleaf.
The duties connected with these positions have involved his continu-
ous attendance at the mine, and have been efficiently performed by
him.

I believe him to be of good character and a fit and proper
person to be examined for a Certificate of Competency under the
Coal Mines Regulations 1957.

FOR SWADESH MINE & MFG. CO. LIMITED.

.....
Date: 22.11.72.

.....
(Signature) *R.C. BANSAL* Manager
Colliery

Manager,
Samla Kendra Colliery,
P.O. Pandaveswar,
Dist. Burdwan (West Bengal).

.....
(Signature of the candidate)

Delete if not applicable.

✓ (Sd/)
C. R. B.
S. S. & M. Co.

P.T.O.

99

100

R.C. BANSAL
Mining Engineer

Serial No.	Particulars of practical experience	Name of Mine	From	To	Yrs. Month. Days		
					1	2	3
1.	Asst. Manager/Training Officer.	Samla Group.	8.6.70	8.11.1972	2	5	00

Grand Total: 2 5 00
FOR SWASTIK MINE

(Signature of Candidate)

(Signature of Manager)

Please state specifically the period spent by the applicant in different mining operations, or surveying operations, as the case may be.

If the employment has not been such as to involve continuous attendance of the applicant at the mine. It must be stated how many weeks, and how many days a week he was employed at the mine, whether underground or aboveground and in what capacity.

R.C. BANSAI
Mining Engineer

450

101

HIRALAL RAMESHWAR PRASAD

MINE OWNERS

Red and Yellow Ochre, Red-Oxide Chalk, Soapstone & Bauxite.

(RAMESHWAR PRASAD RAM CHANDRA)

P. O. JAITWARA,

(M. P.) C. B. M.

Ref. No. RV/1583/86-2

Dated 5-8-1987

...CERTIFICATE...

This is to certify that Shri R.C.Bansal is employed with us as a Graduate Mining Engineer for 6-Mines duly permitted by Indian Bureau Of Mines, Nagpur and Mine's Manager for 4-Mines since 4-11-1983 and is still continuing with us. During this period he was duly authorised to work and plan the workings of Mines independently.

He was also duly authorised during all these years to work as a Manager of four mines by the Office of the Directorate General of Mines Safety. The first authorisation was granted to him vide No. MIII/27(Oehr)/627, Dhanbad, the 1st Feb. 1984 and the present which is still continuing is granted vide No. 5849/Jabalpur dated 30th July 1986.

We have found him diligent and keen on his work. He is still continuing with us.

Yours faithfully;

For HIRALAL RAMESHWAR PRASAD

Basant Lal Bansal
PARTNER

Alka

10/11/87
RECEIVED
MINE SURVEY DEPT.
MINE SURVEY DEPT.

R.C. BANSAL
R.C. BANSAL
Mining Engineer

(dpm)

102

GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
M.C.C.M (CENTRAL ZONE)

No. 716.2-105(R)/B/JBP/2013

Nagpur, dt: 09/09/2013

To

M/s Balram Singh Associates Pvt. Ltd.,
Chopra Colony, P.O.-Maihar,
Ditt.-Satna (M.P.)
PIN-485771

Sub: Renewal of Registration of Recognised Qualified Person under Rule 22 C of
Mineral Concession Rules, 1960- addition of Key Persons thereof.

Reference : 1) RQP Certificate No. RQP/JBP/105/2003/B
2) Your letter no. Nil, dated 29.07.2013.

Sir,

With reference to your above letter, the request for renewal of RQP Certificate & inclusion of one new key person, Shri Ajay Pandey, has been considered & the certificate has been renewed upto 14.09.2023. The recognition granted to your Company, M/s Balram Singh Associates Pvt. Ltd., will be valid with the following key persons henceforth, as requested:

	<u>Name of key persons</u>	<u>Qualifications</u>
1)	Shri Ram Chandra Bansal	B.Sc. (Mining)
2)	Shri Amit Kumar Rai	B.E. (Mining)
3)	Shri Ravi Singh	B. Sc. (Mining)
4)	Shri Ajay Pandey	M.Sc. (Geology)

The necessary certificate of recognition bearing registration No. RQP/JBP/105/2003/B is enclosed herewith. Please acknowledge the receipt.

The recognition is subject to your compliance of the guidelines/instructions issued to you from time to time in connection with preparation of 'Mining Plan.'

You are advised to prepare standard mining plans/scheme of mining complete in all respects as per the outline/guidelines and taking into account all requirements as per CCOM's Circular to RQPs and instructions issued from time to time. Further, you are advised not to furnish any deliberate false information in the mining plan/scheme of mining, so as to mislead the authorities. It may please be noted that any such incidence on your part may lead to withdrawal of the recognition granted to you.

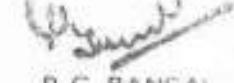
You are advised to attend meetings of RQP's whenever convened by the office.

Encl : As above.

Yours faithfully,

(Ranjan Sahai)
Controller of Mines(CZ)

102
103


R.C. BANSAL
Mining Engineer



खनन योजना बनाने हेतु मान्यता प्राप्त योग्य व्यक्ति को जारी

प्रमाणपत्र

(अनियं रियायत नियमावली 1960 के नियम 22 'सी' के अंतर्गत)

'बलराम सिंह एसोसियेट्स प्राइवेट लिमिटेड', जिनका पंजीकृत कार्यालय छोपड़ा कालोनी, कट्टनी रोड, मैहर, जिला-सतना (मध्य) में है, और उनके प्रमुख व्यक्तियों की योग्यता एवं जनुमत के संबंध में सतीपत्रात्मक प्रमाण प्रस्तुत करने के कालरदरूप अनियं रियायत नियमावली 1960 के नियम 22 'सी' के अंतर्गत उन्हें खनन योजना तैयार करने हेतु योग्य व्यक्ति के रूप में मान्यता प्रदान की जाती है।

उनका पंजीयन क्रमांक : आर०व्य०पी०/जबल/105/2003/दी

- यह मान्यता वस वर्ष की अवधि के लिए दि. 14/09/2013 तक वैध है।

राम सिंह
1619102

(अनियं रियायत)
क्षेत्रीय नियमावली
मान्यता प्रदान करने वाली व्यक्ति
प्रमाणपत्र का संग्रहीत करने वाली संस्था



स्थान : जबलपुर-482002
दिनांक : 15/09/2003
क्रमांक : 23/तक नवानी वर्ष
तिथि : 14/09/2013

संचालक (मध्यावल)
Bureau of Mines (Central Zone)
राम सिंह
Bureau of Mines

R. C. BANSAL
Mining Engineer

(१०५)

ANNEXURE – 7

Chemical Analysis Report



CHEMICAL ANALYSIS OF MINERALS AND ORES

ANALYSIS CERTIFICATE

Customer & Address of customer	Mr. Shrawan Kumar Pathak Satna (MP)	TEST REPORT NO.BSS/190/1132
Location of the Samples	Satri Limestone Mines Area: 38.129 ha	Report Date: 05/01/2017
Type of Samples	Limestone	Sample Receive date: 02/01/2017
Weight of the Sample	100 gm Powder(Each)	Analysis completion Date: 04/01/2017
Method of test	IS:1760	Quantity of Sample: 1 No.
Packing of the Sample	Plastic Bag	

TESTING DETAILS

SAMPLE ID	SILICA as SiO ₂	CALCIUM as CaO	MAGNESIUM as MgO	LOSS ON IGNITION
	RESULT IN %			
Limestone	6.34	47.53	1.50	40.64

Remark :- NIL



These results are drawn by us. 2. The Analysis results provided are applicable only to the submitted samples. 3. The Analysis report in full or part shall not be reproduced in any media, unless written permission is given by BSS Lab. 4. The Analysis result will be kept confidential. 5. BSS Lab shall not be responsible for any variation in characteristics of the submitted samples taken up for analysis. 6. BSS Lab and its staff shall not be liable to the customer or any third party for any actions taken on the basis of such reports or findings, nor for any incorrect results arising from erroneous, unclear, incomplete, misleading or false information provided to our lab. 7. Sample will be disposed after fifteen days from the date of issue of the test report. Unused samples or samples not accepted for any analysis shall be returned to the customer on a written request. 8. The charges agreed at the time of finalizing the order shall be binding on the customer for the duration of the order only. 9. All the terms and conditions mentioned here above are assumed to be agreed by the customer. 10. Subject to Jabalpur jurisdiction only.

Office: BSS Lab, First Floor, 1338, Vijay Nagar, Kachnar City Road, Jabalpur - 482002 (M.P.), India
Telephone/ Fax No. 0761-641694, Mobile: 09424773438, Email: bsslab13@gmail.com, qm@bsslabjabalpur.com
Website: www.bsslabjabalpur.com

100

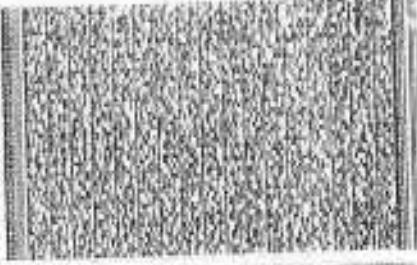
R.C. BANSAL
Miner

ANNEXER - 8

Affidavit



Registration and Stamp Department
Madhya Pradesh



Certificate of Stamp Duty

E-Stamp Details

Stamp Code	01013417032017000821	Municipality Duty (Rs.)	0
E-Stamp Amount	50	Ujjkar Amount (Rs.)	0
Govt. Stamp Duty (Rs.)	50		
Janpad Duty (Rs.)	0		
Exempted Amount(Rs.)	0		
Stamp Type	NON-JUDICIAL		
Date & Time	17/03/2017 12:11:55		
Provider or Issuer Details	BRIJENDRA KUMAR SHRIVASTAVA/SP013441101201600275		
RO/DRO/HO Details	COURT CAMPUS CIVIL LINE SATNA MP RAGHURAJNAGAR SATNA		

Deed Details

Type: Affidavit

Affidavit, that is to say, a statement in writing purporting to be a statement of fact, signed by the person making it and confirmed by him on oath or, in the case of persons by law allowed to affirm instead of swearing, by affirmation. Fifty rupees.

Affidavit

First Party Details

Shrawan Kumar Pathak S/O D/O W/O C/O Lt Moolchand Pathak
Chanakyapuri Colony, Satna Dist. SATNA Madhya Pradesh INDIA

No. of Persons: 1

Second Party Details

Shrawan Kumar Pathak S/O D/O W/O C/O Lt Moolchand Pathak
Chanakyapuri Colony, Satna Dist. SATNA Madhya Pradesh INDIA

No. of Persons: 1



17/3/17
J. Kumar

AFFIDAVIT

Affidavit No. Mine Name- Satri Limestone Mine,

Owner Name – Shrawan Kumar Pathak

Before the Executive magistrate/notary public district Satna

Deponent – Shrawan Kumar Pathak, Chanakyapuri,

P.O. & District – Satna (M.P.) PIN Code- 485001

That the deponent hereby take an oath and state on solemn affirmation as under:

1. I Shrawan Kumar Pathak (Name of lessee), Aged 75 years, S/o Late Shri Moolchand Pathak and resident of Satna (address of lessee) have been sanctioned mining lease for Limestone (mineral name) vide State Government letter No. F-3-104/95/12/1 Bhopal dated 14.03.2008 for the period of 50 years over an area of 94.22 acres or 38.129 Hect. in village Satri in Tehsil Rampur Baghelan Distt. Satna (M.P.) and Mining Plan under Rule 17(3) of Mineral (other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 is being submitted for approval under statutory requirement (as applicable)

2. That no adverse order against my ownership of the above lease has been passed by any tribunal/court/state government and it is devoid of any kind of litigation till date (state, if other wise).

3. There are no any issues related to illegal/irregular mining pending with the state government. (State actual position).

4. There is no pending royalty and revision matter with state government in respect of above mentioned mine (state actual position).

R.C. BANSAL
Mining Engineer

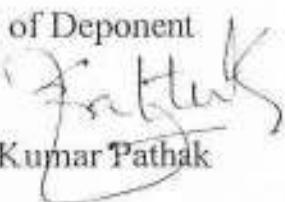
Shrawan Kumar Pathak
M.R.Y. (Reg. No. 852598)
S.A. M.P. 816/1

Contd...

(Signature)

5. In connection with above mentioned mining lease area there is no public interest litigation (PIL) and court cases pending against the lessee. (State actual position)
6. No environmental issues have been publicized in India regarding mining in the lease. (State actual position)

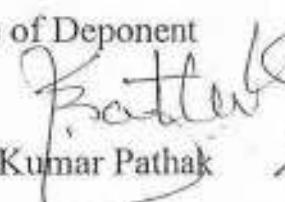
Signature of Deponent


Shrawan Kumar Pathak

VERIFICATION

Verified and signed on 17, 03.2017 that the contents of para 1 to 5 as above are true to the best of my knowledge and belief. If the above information is found false, I shall be liable for punishment under Section 199 and 200 of I.P.C.

Signature of Deponent


Shrawan Kumar Pathak



RECORDED BY
Adv. S. L. Soni, Advocate
ADDRESS
C-24-A, V.P. Road
17/3/17

R.C. BANSAL
Mining Engineer

1007

110

ANNEXURE – 9

Bank Guarantee

STATE BANK OF INDIA
S M E SATNA
CITY TRADE CENTRE
SATNA, MADHYA PRADESH

TEL NO:
FAX NO: 07672-223419
SWIFT NO: SBININBB241
PIN CODE: 495001

5/11/2017

To
✓ THE REGIONAL CONTROLLER OF MINES
INDIAN BUREAU OF MINES,
JABALPUR REGIONAL OFFICE (KLF)

DEAR SIR(SI),

GUARANTEE NUMBER : 0412416BG0000187
DATE OF ISSUE : 12/20/2016
NEW GUARANTEE AMOUNT : INR2,00,000.00
NEW DATE OF EXPIRY : 3/31/2022
NEW DATE OF CLAIM : 3/31/2022
APPLICANT NAME : SHRAWAN KUMAR PATHAK

We confirm having Issued / Extended the captioned Bank Guarantee in your favour
on Behalf of our above named Constituent and the same signed by the officers of
the Bank.

YOURS FAITHFULLY,


AUTORISED SIGNATORY.

The Beneficiaries are advised in their own interest to verify the genuineness
of the Guarantee with the BG issuing Branch.
PLEASE CONTACT BRANCH FOR eTradeSBI FACILITY-INTERNET ACCESS TO TRADE FINANCIAL

STATE BANK OF INDIA
S M E SATNA
CITY TRADE CENTRE
SATNA, MADHYA PRADESH

TEL NO:
FAX NO:07672-223419
SWIFT NO:SBININBB241
PIN CODE:485001

Date: 5/11/2017

THE REGIONAL CONTROLLER OF MINES
INDIAN BUREAU OF MINES,
JABALPUR REGIONAL OFFICE (M.P.)



DEAR SIRS,

Original Guarantee No :04124168G0000187
Amount of guarantee :INR2,00,000.00
Guarantee cover from :12/20/2016 TO 12/18/2021
Last date for lodgement of claim :12/18/2021

Applicant :SHRAWAN KUMAR PATHAK

We hereby inform you that at the request of the above applicant, the
Original Guarantee No. 04124168G0000187 issued by us on 12/20/2016 and renewed
on 12/18/2021 for an amount of INR2,00,000.00 has now been extended
for further period upto 3/31/2022 for an amount of INR2,00,000.00
2. The last date for the receipt of claims under this extended guarantee
will be 3/31/2022
3. All other terms and conditions as appearing in the Original Guarantee
shall apply to this Extension guarantee and shall be read with the Original
guarantee.

THE STATE BANK OF INDIA

AUTHORISED SIGNATORY

AUTHORISED SIGNATORY

PLEASE CONTACT BRANCH FOR TRADESET FACILITY-INTERNET ACCESS TO TRADE FINANCE



Registration and Stamp Department
Madhya Pradesh



Certificate of Stamp Duty

E-Stamp Details

E-Stamp Code	01011811052017006654
Total E-Stamp Amount	500
Govt. Stamp Duty (Rs.)	500
Janpad Duty (Rs.)	0
Exempted Amount(Rs.)	0

Municipality Duty (Rs.)	0
Upkar Amount (Rs.)	0

E-Stamp Type: NON-JUDICIAL

Issue Date & Time: 11/05/2017 15:22:00

Service Provider or Issuer Details: BRIJENDRA KUMAR SHRIVASTAVA

SP/SR/DRO/HO Details: -

Deed Details

Deed Type: Bank Guarantee

Deed Instrument: Bank Guarantee, Guarantee deed executed by a bank as surety to secure the due performance of a contract or the due discharge of liability. 0.25 percent of the amount, subject to a maximum of twenty five thousand rupees.

Purpose: Bank Guarantee

First Party Details

Organization Name: Regional Controller IBM
Address: Jabalpur, Distt. JABALPUR Madhya Pradesh INDIA
Number of Persons: 2

Second Party Details

Name: Shrawan Kumar Pathak S/O D/O W/O C/O Mookchand Pathak
Address: Chanakyapuri Colony, Semariya Chowk, Satna Dist. SATNA Madhya Pradesh INDIA
Number of Persons: 1

0412415 BG 0000187

Bank Guarantee

Khesari Chaturvedi
C-40/2

कृतोः भारतीय बैंक बैंक
For: STATE BANK OF INDIA

उप. मन्त्री/D.Y. Mehta
प्रमाण. विवाह संग्रहालय

RAJIVE SHRIVASTAVA
S-22435

R.C. PANDIT
Minister

Digital signed by Brijendra
Kumar Shrivastva
Date: 2017.05.11 15:22:08

To

The Regional Controller,
Indian Bureau of Mines,
Jabalpur (M.P.)

0412416BG000187

Sub: Extension of B.G. No. 0412416BG000187 issued in favour of Regional Controller
IBM upto 31.03.2022.

Ref: B.G.No. 0412416BG000187

Amount: Rs. 2,00,000-00

Original Period: 20.12.2016 to 18.12.2022

Required Expansion Period: 20.12.2016 to 31.03.2022

D/Sir,

The request of Shri Shrawan Kumar Pathak R/o Chanakyapuri Satna (M.P.) to extend B.G. cited above upto 31.03.2022 is reasonable thereby accepted.

Further undersigned hereby extends the liability period upto 31.03.2022. Furthermore, all other terms and conditions of the original guarantee No. 0412416BG000187 shall remain unaffected, unchanged and binding on all parties.

Notwithstanding anything contrary contained in any law for the time being in force banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the Bank. Any invocation of guarantee can be made only by the beneficiary directly.

....2


Kishore Choudhuri
C-22435

क्रमांक: भारतीय बैंक
For: STATE BANK OF INDIA

राजीव श्रीवास्तवा, M.E.
Raviive SHRIVASTAVA
S-22435

"Notwithstanding anything contained hereinabove:

- (a) Our liability under this Bank Guarantee shall not exceed Rs. 2,00,000-00 (Rupees Two Lacs only);
- (b) This Bank Guarantee shall be valid upto 31.03.2022
- (c) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before 31.03.2022 (date of expiry of Guarantee) otherwise bank shall be relieved and discharged from its liability under this guarantee thereafter whether or not the original bank guarantee is returned."

Please treat this as integral part of the Original Bank Guarantee which is now incorporated and attached to it.

Place : Satna (M.P.)

Date : 12th May 2017 11 MAY 2017

Re:

Ahmed
Krishna Chaudhuri

क्र०: भारतीय स्टेट बैंक
For: STATE BANK OF INDIA

R.S.
Rajiv Shrivastava, Manager
State Bank of India, Satna S.M.E. Br. 1116

RAJIVE SHRIVASTAVA
S-22435

R.C. Rajiv S.M.E.
Mining Engineer

000 00 00 00 221612
FAX 00 00 00 00 00 00 00
S/PT 00 00 00 00 00 00 00
T/F 00 00 00 00 00 00 00

17/07/2016

INTEREST
CHARGE RATE
AMOUNT OF CHARGE

INTEREST CHARGE	0.00
CHARGE RATE	0.00
INTEREST AMOUNT	0.00
DATE OF EXPIRE	00/00/00
NAME OF BANK	00000000000000000000000000000000
RECEIVED NAME	RECEIVED R.C. BANSAL

RECEIVED PAYING ISSUER / TO RECIEVE THE CAPTIONED BANK GUARANTEE IN YOUR FAVOUR
IN BUREAU OF OUR ABOVE NAMED COMPANY, AND THE SAME SIGNED BY THE OFFICER OF
THE BANK.

YOURS FAITHFULLY,



S/PT
11/21/2016
STATE BANK OF PATTIALA
PATTIALA
PUNJAB
INDIA

THE BENEFICIARIES ARE ADVISED TO TAKE OWN INTEREST TO VERIFY THE GENUINENESS
OF THE GUARANTEE WITH THE STAMP ISSUING STATED.

PLEASE CONTACT BRANCH FOR ONLINE FACILITY-INTERNET ACCESS TO TRADE FINANCE


R.C. BANSAL
Mining Engineer

000

117

STATE BANK OF INDIA
MUMBAI
MUMBAI
MUMBAI

STATE BANK OF INDIA
MUMBAI
MUMBAI
MUMBAI

SHRI SHRAWAN KUMAR PATEL
DEAR SIR / MAM / MRS / MURSHID
LAWYER / ADVOCATE / OFFICER / M

RE: T/T

GUARANTEE NO: 1011241269000387
AMOUNT OF GUARANTEE: Rs. 2,00,000.00
GUARANTEED DATES: 15/7/2016 TO 12/10/2021
LAST DATE FOR SETTLEMENT OF CLAIM: 12/10/2021

THIS GUARANTEE IS MADE BY THE STATE BANK OF INDIA,
ESTABLISHED UNDER THE STATE BANK OF INDIA ACT, 1955 HAVING THE CENTRAL OFFICE
AT MUMBAI, MUMBAI AND ANNUAL BRANCH PLACES, A BRANCH AT
MUMBAI, MUMBAI AFTER REFERRED TO AS 'THE BANK'
FOR THE NATIONAL COMMERCIAL BANKS
AFTER REFERRED TO AS 'BANKS', FOR AN AMOUNT NOT EXCEEDING
Rs. 2,00,000.00
Rupees two lakh only

AT THE REQUEST OF SHRAWAN KUMAR PATEL,
THE GUARANTEE SHALL REMAIN IN FORCE UPTO 12/10/2021
AND CANNOT BE INVOKED OTHERWISE THAN BY WRITTEN DEMAND OR CLAIM UNDER THIS
GUARANTEE SERVED ON THE BANK ON OR BEFORE THE 12/10/2021

NOTWITHSTANDING ANYTHING CONTAINED HERIN ABOVE, OUR LIABILITY UNDER THIS
GUARANTEE IS RESTRICTED TO
Rs. 2,00,000.00
Rupees two lakh only

GUARANTEE SHALL REMAIN IN FORCE UNTIL 12/10/2021. UNLESS A DEMAND OR
CLAIM UNDER THE GUARANTEE IS MADE IN THIS BANK IN WRITING ON OR BEFORE
12/10/2021 ALL YOURS RIGHTS UNDER THE SAME GUARANTEE BE FORFEITED AND WE SHALL
BE RELEASED AND DISCHARGED FROM ALL LIABILITIES THEREUNDER.

OFFICER SIGNATORY

AUTHORISED SIGNATORY

YOU CAN CONTACT BRANCH FOR eTradeSRI - E-COMMERCE - INTERNET ACCESS TO TRADE FINANCE

R.C. BANSAL
Mining Engineer

DO NOT ANNOY ANYONE. DO NOT APPROVE THIS. OUR CLASSIFICATION IS THAT
IT IS A SECRET.
DO NOT
DO ONLY

REMEMBER THAT, SINCE THE PAPER IS A REPORT, UNLESS A FINGER OR
A THUMB OF THE COORDINATE IS MADE IN THE FORM OF WRITING OR OF BRIEFS
OR LETTERS, ALL YOURS IS TO OBTAIN THE COORDINATE BY TELEGRAM AND WE SHALL
REMEMBER AND DISCLOSE IT, WITH ALL THESE, IN THIS MANNER.

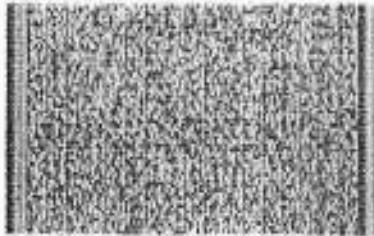
R.C.
AUTHORIZED SIGNATORY

Chandrasekhar
AUTHORIZED SIGNATORY

R.C.B.
R.C. BANSAL
Mining Engineer



Registration and Stamp Department
Madhya Pradesh



Certificate of Stamp Duty

E-Stamp Details

Stamp Code	01013319122016009447
Stamp Amount	500
Govt. Stamp Duty (Rs.)	500
Stamp Duty (Rs.)	0
Exclusive Amount (Rs.)	0

Municipality Duty (Rs.) 0
Upkar Amount (Rs.) 0

Stamp Type: NON-JUDICIAL

Date & Time: 19/12/2016 05:12:04 PM

Service Provider or Issuer Details: BRIJENDRA KUMAR SHRIVASTAVA SP013441101201600275

COURT CAMPUS CIVIL LINE SATNA MP KATHURAJNAGAR SATNA

Deed Details

Deed Type: Certificate or other document

Certificate or other document, evidencing the right or title of the holder thereof, or any other person, either to any shares, scrip or stock in or of any incorporated company or other body corporate, or to become proprietors of shares, scrip or stock in or of any such company or body. One rupee for every one thousand rupees or a part thereof, of the value of the shares, scrip or stock.

Mining Lease

First Party Details

Shreya Kumar Pathak S/O D/O W/O C/O Late Moolchand
Chaukayapuri Colony, Satna Dist. SATNA Madhya Pradesh INDIA

1

Second Party Details

State Bank of India
SME Branch, Satna, Dist. SATNA Madhya Pradesh INDIA

1

purpose for mining lease

कृते भारतीय स्टेट बैंक
For State Bank of India

Rajendra
RAJENDRA SHRIVASTAVA
S.S. No. S22435

RECEIVED
01/01/2017 10:00:00 AM
S.M. 2000
2782

Document signed by Brijendra
Shrivastava
2016.12.19 17:38:54

Rajendra

01013418122016009447

4120

R. C. BANSAL
Mining Engineer

To be stamped as an Agreement in accordance with the State Bank of India Act.



STATE BANK OF INDIA

MUMBAI (NARIMAN POINT)
S. H. L. & CO. (NARIMAN POINT) BRANCH

Stamp

N. 2-500/-

Form No. G/2 256040

The Regional Controller of Mines
 Indian Bureau of Mines
 Jabalpur Regional Office
 (M. P.)



Dear Sir,

Guarantee No. 0412416 B 00000187-

Amount of Guarantee Rs. 200000/-

Guarantee cover from 20/12/2016 to 18/12/2021

Last date for judgement of claim 18/12/2021

This Deed of guarantee executed by the State Bank of India, constituted under the State Bank of India Act, 1955 having its Central Office at Nariman Point, Mumbai and amongst other places, a Branch at ~~PO. BOX. NO. 1000~~ (SBI, Branch No. 1000) (hereinafter referred to as 'the Bank') in favour of Indian Bureau of Mines (hereinafter referred to as 'the Beneficiary') for an amount not exceeding Rs. 200000/- (Rupees two lac only) at the request of Shrawan Kumar Pathak (hereinafter referred to as 'the Contractor/s').

This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a maximum of Rs. 200000/- (Rupees two lac only) and the Guarantee shall remain in full force upto 18/12/2021 (Last date of claim).

and cannot be invoked otherwise than by a written demand or claim under this Guarantee served on the Bank on or before the 18/12/2021 (Last date of claim).

SUBJECT TO AS AFORESAID

(Main Contractual matter
may be typed hereafter)

Code No. 2072

RAJIV SHRIVASTAVA
C. S. No. S22435कृते भारतीय रेस्ट बँक
For State Bank of India150000000/-
RS. 200000/-
M.Y. 2787P. C. BANSAL
Mumbai

123

121

BANK GUARANTEE & CO-ACCEPTANCE BOND

1. Agreement on production of a Bank Guarantee for Rs. 2,00,000-00 (Rupees Two Lakhs only) under Rule 23 F of MCDR, 1988 (amended).
2. We, STATE BANK OF SATNA M.P. (Bank) at the request of Shrawan Kumar Pathak (Lessee) hereby undertake to pay the Regional Controller of Mines, Indian Bureau of Mines, Jabalpur Regional Office, or any other officer/authority nominated by the Controller General, Indian Bureau of Mines, and amount not exceeding Rs. 2,00,000-00 (Rupees Two Lakhs only) against any loss or damage caused to or suffered or would be caused to or suffered by the Government or towards non-compliance of provisions of Rule 23 A,B and 23L of MCDR, 1988 i.e. Mine closure Plan/Progressive Mine closure Plan approved in respect of the mining lease for Ramsthan Limestone Mine, over an area of 38.179 Hects. Granted by State Govt. of Shrawan Kumar Pathak (lessee) S/o Late Shri Mool Chand Pathak situated in Satri Village Rampur Baghelan Thana Rampur Baghelan Distt. Satna M.P. state, by reason of any breach by the said lessee of any of the terms or conditions contained in the Mine Closure Plan/Progressive Mine Closure Plan.
3. We, STATE BANK OF SATNA M.P. (Bank) do hereby undertake to pay the amount due and payable under this guarantee without any demur, to the authority merely on a demand from the Regional Controller of Mines, Indian Bureau of Mines, Jabalpur Regional Office, or any other authorized by the Controller General, Indian Bureau of Mines stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said lessee of any of the terms or conditions contained in the Mining Plan/Mining Scheme or by reason of the Lessee's failure to perform the said Mine Closure Plan/Progressive Mine Closure Plan. However our liability under this guarantee shall be restricted to an amount not exceeding Rs. 2,00,000-00 (Rupees Two Lakhs only).
4. We undertake to pay to authority on a demand from the Regional Controller of Mines, Indian Bureau of Mines, Jabalpur Regional Office, or any other officer authorized by the Controller General, Indian Bureau of Mines or Govt. of India any money so demanded notwithstanding any dispute or disputes raised by the lessee in any suit or proceedings pending before any Court or tribunal relating there to our liability under this present being absolute and unequivocal.

महाराष्ट्र शेन बैंक
For State Bank of India

Contd....

RAJIV SHRIVASTAV
S.S. No. 522435

राजीव श्रीवास्तव S.M.E. B.Sc. Geopk.
23/3/

R.C. BANSAL
Mining Engineer

122

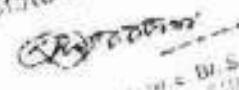
the payment so made by us under this bond shall be valid discharge of our liability for payment there under and lessee shall have no claim against us for making such payment.

5. We ^{S.M.E. Branch S.A. No. 1012} further agree that the guarantee herein contained shall remain in full force and effect during the period up to the end of the Mining Plan Scheme of Mining period of five years that would be taken for performance of the said agreement and that shall continue to be enforceable till all the dues of the Government under or by virtue of said agreement have been fully paid and its claims satisfied or discharged or till Regional Controller of Mines Indian Bureau of Mines, Jabalpur Regional Office, or any other officer authorized by the Controller General, Indian Bureau of Mines, certifies that the terms and conditions of the said Progressive Mine Closure Plan/Final Mine Closure Plan have been fully and properly carried out by the lessee and accordingly discharge this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the 18.12.2021. We shall be discharged from all liability under this guarantee thereafter.

6. We further agree that the Regional Controller of the Mines, Indian Bureau of Mines, Jabalpur Regional Office, or any other officer authorized by the Controller General, Indian Bureau of Mines, shall have fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said Agreement or to extent time of performance by the said Lessee from time to time or to postpone for any time or from time to time and powers exercisable by the Regional Controller of Mines, Indian Bureau of Mines, Jabalpur Regional office against the said Lessee and to forbear or enforce any of the terms and conditions relating to the said Agreement. We ^{S.M.E. Branch S.A. No. 1012} shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Lessee or for any forbearance, act or omission on the part of the Regional Controller of Mines, Indian Bureau of Mines, Jabalpur Regional Office, or any indulgence to Regional Controller of Mines, Indian Bureau of Mines, Jabalpur Regional Office, to the said Lessee or any manner or thing whatsoever which under the law relating to sureties would, but this provision have effect of so relieving us.

7. This Guarantee will not be discharged due to the change in the constitution of the Bank or the Lessee.


RAJIV SRIVASTAVA
CC No. 522435

क्षेत्रीय रेंट बँक
For State Bank of India

B.S. BANSAL
Mining Engineer

Contd..

1. SBI (SMP Bank, Viz. Bank) holds unilaterally to revoke this Guarantee during its term except with the due and content of the Regional Controller of mines, India, Bureau of Jharsuguda Regional office, in writing.

2. The Bank guarantee is to be enforced through the court in that case the (city where Regional Office, IBM is located) court will have jurisdiction.

Notwithstanding anything contrary contained in any law for the time being in force or banking practice this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or Agent of beneficiary shall not be entertained by the bank. Any invocation of guarantee must be made only by the beneficiary directly.

1. Notwithstanding anything contained herein:

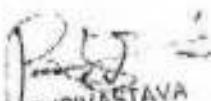
(a) Our liability under this Guarantee shall not exceed of Rs 200000/- (Rupees two Lacs Only)

(b) This Bank Guarantee shall be valid up to 18.12.2021.

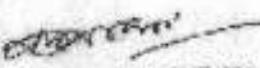
(c) We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if you serve upon us a written claim or demand on or before 18.12.2021 (date of expiry of guarantee); otherwise bank shall be relieved and discharged from its liability under this guarantee thereafter whether or not the original bank guarantee is returned.

IN WITNESS WHERE OF

For and behalf of the Guarantor has signed this deed on the 20th day of Dec 2016 at Sera.


RAJIV SRIVASTAVA
S.S. NO. 522435

धूरो भारतीय बैंक
For State Bank of India


M.K. TIWARI
1 - 2782


R.C. BANSAL
Mining Engineer

ANNEXURE – 10

Copy of Renewal Application

FORM - A

seeking prior approval of Central Government under section 2 of the Forest (Conservation) Act, 1980 for diversion of fresh forest area

PART - I

(to be filled up by User Agency)

A. General Details

A-1. Project Details

(i). Proposal No. : HP/MP/MIN/22827/2016

(ii). Name of Project for which Forest Land is required : Satri Lime Stone Mine

(iii). Short narrative of the proposal and Project/scheme for which the forest land is required : Forest clearance under section-2 of FCA 1980 for non forest use i.e. mining of mineral lime stone for 50 years of project life under MCR 2016

(iv). State : Madhya Pradesh

(v). Category of the Project : Mining

(vi). Shape of forest land proposed to be diverted : Non Linear

(vii). Estimated cost of the Project(Rupees in lacs) : 400

(viii). Total Area of Forest Land proposed for diversion(in ha.): 37

(ix). Non-Forest Land required for this project(in ha.): 1.129

(x). Total period for which the forest land is proposed to be diverted(in years): 50

A-2. Details of User Agency

(i). Name : SHRAWAN KUMAR PATTAK

(ii). Address1 : Chanakyapuri, Semarjya Chowk.

(iii). Address2 : P.O. and Distt. - Satna

(iv). State : Madhya Pradesh

(v). District : Satna

(vi). Pin : 485001

(vii). Landmark : Near Hotel Uma Residency



R.C. BANSAL

Mining Engineer

(127) (126)

(vii). Email address: 150015.mydomain.com

(viii). Landline Telephone No.: 7677-252292

(ix). Fax No.: 7677

(x). Mobile No.: 9425172692

(xi). Website (if any): NIL

(xii). Legal status of User Agency: Private

a.3. Details of Person Making Application

(i). First Name: Shirwan

(ii). Middle Name: Kumar

(iii). Last Name: Pathak

(iv). Gender: Male

(v). Designation: Owner

(vi). Address 1: Chanakpuri,seinarhya chowk

(vii). Address 2: P O and District satna

(viii). State: Madhya Pradesh

(ix). District: Satna

(x). Tehsil: Raghurajnagar

(xi). Pin: 485001

(xii). Landmark: NIL

(xiii). Email Address: anju.aplinka@gmail.com

(xiv). Landline Telephone No.: 7677-252292

(xv). Fax No.: NIL

(xvi). Mobile No.: 9425172692

(xvii). Copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency:

3. Details of land required for the Project

Details of proposal seeking prior approval of Central Government, under the Act for diversion of forest land for the Project already submitted in the past.

List of proposal submitted in Past							
S.no	Proposal Status.	Proposal No.	MoEF File No.	Area Proposed for Diversion(Ha.)	Area Diverted(Ha.)	Date of In-Principle Approval	Date of Final Approval
		NIL					

3.1 Details of forest land proposed to be diverted

3.1.1 Details of Divisions involved

Details of Divisions involved			
S.no	Division Name	Forest Land(ha.)	Non-Forest Land(ha.)
1.	Satna(T)	37	1,129

3.1.2 Details of Districts involved

District wise breakup			
S.no	District Name	Forest Land(ha.)	Non-Forest Land(ha.)
1.	Satna	37	1,129

3.1.3 Village wise breakup

Villages wise breakup			
S.no	Village	Forest Land(ha.)	Non-Forest Land(ha.)
1.	Sebri	37	1,129

3.1.4 Component wise breakup

Component wise breakup			
S.no	Component	Forest Land(ha.)	Non-Forest Land(ha.)
1	Mining (Opencast)	37	1,129

3.2 Maps of forest land proposed to be diverted

Division 1. : Satna(T)							
(i). Area of forest land proposed to be diverted(in ha.) : 37							
(ii). : Non Linear							
(a). No. of patches : One							
<table border="1"> <thead> <tr> <th colspan="2">Patch wise details</th> </tr> <tr> <th>Patch</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> </tbody> </table>		Patch wise details		Patch		1	
Patch wise details							
Patch							
1							

R.C. BANSAL
Mining Engineer 3

128

No.	Area of Forest, in ha.	Kind of File or Patch(es)
1		<input checked="" type="checkbox"/> View File

(iii). Copy of Survey of India Topo-sheet indicating boundary of forest land proposed to be diverted.

(iv). Scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using GPS or Total Station.

D. Justification for locating the Project in forest land and details of alternatives examined:

(i). Copy of note containing justification for locating the Project in forest land.

E. Employment likely to be generated

(i). Whether the Project is likely to generate employment? Yes

(ii). Permanent/Regular Employment (Number of persons): 100

(iii). Temporary Employment (Number of person-days): 50

F. Displacement of People due to the Project, if any

(i). Whether Project involves displacement? No

G. Details of Cost-Benefit analysis for the Project

(i). Whether the Project requires Cost-Benefit analysis? Yes

(a). Copy of Cost-Benefit analysis:

H. Status of Environmental Clearance

(i). Whether the Project requires Clearance under the Environment (Protection) Act 1986? : No

I. Status of Wildlife Clearance

(i). Whether the Project or a part thereof is located in any Protected Area or their Eco sensitive zone? : No

J. Applicability of special provisions governing Scheduled Areas

(i). Whether the Project or a part thereof is located in a Scheduled Area? : No

K. Status of settlement of rights under the Forest Rights Act, 2006 on the forest land proposed to be diverted

(i). Whether the process for settlement of Rights under the Forest Rights Act 2006 on the forest land proposed to be diverted has been completed: No

(ii). Copy of documentary evidence in support of settlement of rights under the Forest Rights Act, 2006 on the forest land proposed to be diverted: No

L. Details of land identified for Compensatory Afforestation

(i). Whether endowment of Revenue forest land is required to be provided by User Agency: Yes

(ii). Whether the area of non-forest land or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation is less than area of forest land proposed to be diverted: No

(iii). No. of districts involved for raising Compensatory Afforestation: 1

(iv). No. of patches: One

(v). Scanned copy of the map of the land identified for creation of Compensatory Afforestation prepared UV using GPS or Total Station: No

(vi). Copy of Survey of India Toposheet in 1:50,000 scale indicating location of the land identified for creation of Compensatory Afforestation: No

M. Mining Details

M-1. Details of Mineral Concessions

(a). Whether the forest land is acquired under Coal Bearing Areas Act: No

(a). Reference number of Letter of Intent for grant of mining lease/approval letter of the State Mines and Geology Department: F-3-104/95/17

(b). Date of issue of the Letter of Intent (LOI) for grant of mining lease: 14 Mar 2008

(c). Copy the Letter of Intent (LOI): No

(d). Total area of the mining lease (in ha.): 36.129

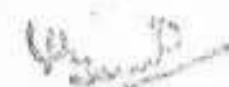
(e). Area of forest land located in the mining lease (in ha.): 37

M-2. Details of Mining Plan

(i). Date of approval of mining plan: 29 Nov 2016

(ii). Approval authority: NA

(iii). Copy of approval of mining plan: No


R.C. BANSAL
Mining Engineer

(iv) Copy of approximate mining plan

(v) Nature of mining (underground/ opencast), General

(vi) Copy of the mining land use plan in 1:4,000 scale prepared by using GPS or Total Station

(vii) Copy of map of the outer boundary of mining lease area. [View File](#)

M-1. Details of prospecting undertaken to assess mineral reserves

(i). Whether detailed prospecting to assess mineral reserve in the lease has been undertaken: No

M-1. Details of extension (if any) of original prospecting licence issued in the past

(i). Whether detailed prospecting to assess mineral reserve in the lease has been undertaken: No

M-3. Brief details of prospecting activities undertaken in the mining lease :

(i). Detail of prospecting activity undertaken in the mining lease: The area was previously held under mining lease by the applicant for 20 years period granted before the enactment of FCA,1980. It is a case for renewal of mining lease.

M-3.1 Details of bore holes drilled for prospecting :

Bore holes drilled for prospecting				
S.no	No. of Bore holes (in forest land)	Diameters(in inch.) forest land	No. of Bore holes (in non-forest land)	Diameters(in inch.) non-forest land
1	0	0	0	0

M-3.2 Estimated Reserve along with accuracy and confidence level

Estimated Reserve along with accuracy and confidence level						
Minerals	Estimated Reserve (million tones)	% accuracy (+ -)	% confidence level	Estimated Reserve (million tones)	% accuracy (+ -)	% confidence level
Limestone and Other Calcareous Materials	0.2	5.02	0.123	50	6.12	0

M-6. Details of approval under the Forest (Conservation) Act,1980 obtained for undertaking prospecting activities in the forest land located in the mining lease

(i).Whether approval under the Forest (Conservation) Act, 1980 for undertaking prospecting activities in the forest land located in the mining lease have been obtained No

Details of approval under the Forest(Conservation) Act,1980					
S.no	MoEF File No	Date of approval	Area of forest land diverted(in ha.)	From Date	To Date
NIL					

(ii) No. of mining lease

Minerals	Mineral wise details					
	Estimated reserve in non forest land(million tons.)	Estimated reserve in forest land(million tons.)	Estimated annual extraction(million tons.)	Estimated life of mine(Yrs.)	Total estimated extraction during mining lease period(million tons.)	Estimated mineral reserve at the end of mining lease(million tons.)
Limestone and other Calcareous Materials	0.7	2.92	0.125	50	6.12	0

M.7.1 Proposed use of the minerals proposed to be raised from the mining lease

(i). Proposed use of the minerals proposed to be raised from the mining lease: Non captive

(ii). Copy note containing details of the plan for the transportation of the minerals proposed to be raised from the mining lease: No Data

Additional Information Details

Documents		
S.No	Documents	Remarks
1	100	Project details

[Print page](#)


 R.C. BANSAL
 Mining Engineer

FORM (D)

RECEIPT OF APPLICATION FORM MINING LEASE PROSPECTION
LICENCE RENEWAL IN RESPECT OF MAJOR MINERALS

OFFICE OF THE COLLECTOR, SATNA (M. P.)

No. M.L./P.L./Renewal/Mining 11/14/2010 Dated 3-3-2010
Received the application with the following enclosures for M.L./P.L./Renewal of Shri Mr. Shyam Singh Pathak at A.M./P.M. on dated 3-3-2010 for about 94.22 bighas/acres/hectares of land located in village Satna - Taluk - Block - Teh. Reghughurajnagar, Maihar, Nogod, Amarpatan Dist/Satna for minerals.

Enclosed 1 Application - 3 copies 2 Map - 1 copy
3. Khasra Panchshala - 1 copy 4. Treasury challan of Rs. 450/-
5. Firm Registration - 1 copy 6. Partnership Deep clearance certificate - 1 copy 7. Copy of I.T.C.C. - 1 copy 8. Power of Attorney - 1 copy 9. Prospecting Report - 1 copy
10. Affidavit - 1 copy

2/11 Superintendent

For-Collector Satna [M. P.]
M.L./P.L./Renewal/Mining/Satna, dated - - -

Encl. No. Copy of application with plan forwarded to the - - -
1. Director of Geology and Mining Kakkar Bhawan, Kator, Falab Raipur, [M. P.] for information and record.
2. Managing Director State Mining Corporation, Maharana Pratap Nagar Bhopal for N.A.

2/11 Superintendent
For-Collector Satna [M. P.]

B/UV
Mining Engineer

(127)

Received ...
Place on ...
Date ...
Initial of
Receiving Officer

FORM J
(To be submitted in Triplicate)

GOVERNMENT OF MADHYA PRADESH

Application for Renewal of Mining Lease
[See Rule 28 (1)]

OK

Dated

Day of

The 8th day of March 2003

To,

The Secretary,
to the Government of Madhya Pradesh,
Mineral Resources Department;
B H O P A L (M. P.)

Through :—

The Collector, Distt. SANTHILM. P.

Sir,

I/We request for renewal of my/our Mining Lease under the Mineral Concession Rule 1960.

1. A sum of Rs. 500/- being the application fee payable under Sub-Rule 3 (1) (a) of Rule 22 of the said rule has been deposited. *vide ticket no. 237105* *copy enclosed*
2. The required particulars are given below : *SHRAWAN KUMAR PATHAK*
 - (i) Name of the Applicant with complete *Semanta Chandra Chatterjee* *Section 1 M.P.* *private individual*
 - (ii) Is the Applicant a private / individual / Private Company / Public Company / Firm or Association.
 - (iii) In case Applicant is :—
 - (a) An individual, his nationality.
 - (b) A Private Company, the nationality of all members of the company alongwith place of registration.
 - (c) A Public Company, the nationality of Directors, the percentage of share capital held by Indian Nationals alongwith place of Incorp.
 - (d) A Firm Association, the nationality of all Partners of the firm or members of Association.
 - (iv) Profession or nature of business of the applicant.
 - (v) (Omitted by the Mineral Concession (Amendment)
 - (vi) Rules, 1987 vide G. S. R.86 (E).
 - (vi a) No. and Date of the valid clearance Certificate of payment of Mining dues (copy enclosed)
 - (vii) An affidavit that up-to-date Income Tax return, prescribed under the Income Tax Act, 1961 have been filled and the Tax due including the tax on account

R. C. BANSAL
Mining Engineer

Mining business

No. 11M | No. 2039 dt 3- XII-
Copy enclosed

An affidavit is being
submitted in this behalf.

An affidavit is being
submitted in this behalf.

(viii) (a) Particulars of the Mining Lease of which renewal is desired.
(b) Details of previous renewal granted if any.

(ix) Period of which the renewal of mining lease is required.

(X). Whether renewal is applied for the whole or part of the lease hold.

(X A). (a) Does the applicant continue to have surface rights over the area of the land for which he requires renewal of Mining lease.
(b) If not has he obtained the consent of the owner and occupier for undertaking mining lease operations. If so the consent of the owner and occupier of the land obtained writing be filed.

(X B) Particulars of the areas mineralwise in each state duly supported by affidavit for which the applicant or any person joint in interest with him.
(a) Already holds under mining lease.
(b) Has already applied for but not granted, or.
(c) being applied for simultaneously.

(X C). A mining plan which shall include :-
(a) The plan of the area showing the nature & extent of the mineral body spot or spots where the excavation is to be done in the first year and its extent, a detailed cross section and detailed plan of spot(s) of excavation based on prospecting data gathered by the applicant a tentative scheme of mining for the period of the lease.
(b) The details of Geology and Lithology of the area, the extent of manual mining and through machines.
(c) Annual programme and plan for excavation year to year ; and
(d) The plan of the area showing natural water courses, limit of reserved and other forest areas and density of trees, assessment of impact of mining activity on Forest, land surface & environment including air and water pollution, and details of scheme for restoration of the same by afforestation land reclamation, use of pollution control devices.

Types of trees in the park are
established here & in England.
X ^{other} ~~other~~
Six types of trees ~~in~~ introduced
Twenty years.

to take care

Land belongs to state govt.

An affidavit enclosed.

(i) M.L. for Nine State are
an area of 94.22 acres in
village SATARI district
Satra (M.P.) The revenue of
this lease is very applied.
(ii) M.L. for 45 m.R.s in the area
an area of 200 acres per
month to 1000/-

probable and will be
submitted as soon as
permitted or required by
J. B. M.

As per mining plan

$$y_1 = y_2 = y_3 = y_4$$

P. C. BANSAL
Mining Engineer

(3)

(xi) In case of renewal applied for is only for part of the lease hold.

- The area applied for renewal.
- Description of the area applied for renewal (description should be adequate for purpose of demarcating the spot).
- Particulars of the map of the lease hold with area applied for renewal clearly marked on it (attached)
- Particulars of existing or created dump of ore, if any.

(xii) Means by which the mineral is to be raised i.e. by hand labour or mechanical or electrical powers.

(xiii) Manner in which the mineral raised is to be utilised :—

- For manufacture in India.
- For export to Foreign Countries.
- In the former case the industries in connection with which it is required, should be specified. In the latter case, the Countries to which the mineral will be exported and whether the mineral is to be exported after processing or in raw form should be stated.

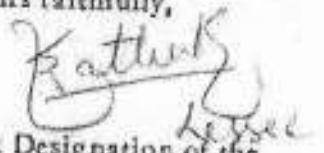
(xiv) Details of out put during the last three years and phased programme for production during the next three years alongwith the lay out programme plan for development, if any.

(xv) In case of Coal details of existing Railway Transport facility availing available and additional transport facility if required.

(xvi) Any other particulars which the applicant wishes to furnish.

I/We do hereby declare that the particulars furnished above are correct and am/are ready to furnish any other details including accurate plans as required by you before the grant of renewal of the case.

Yours faithfully,



Signature & Designation of the
Applicant

cc. S.D.T.N.A.
cc. ~~2020-2021~~

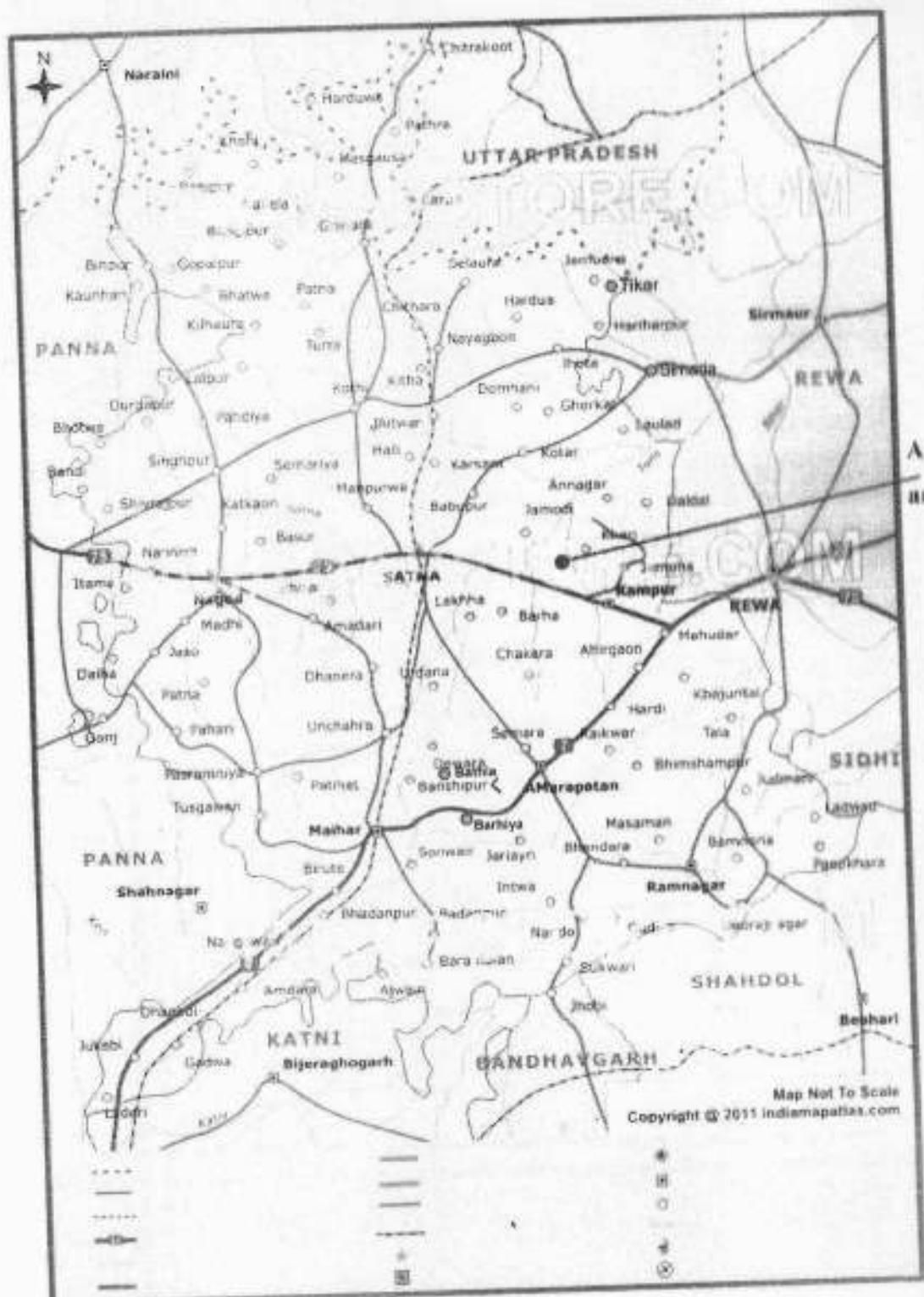
Inclusions :— The mentioned above

(124)

R.C. BANSAL
Mining Engineer

LOCATION MAP
SATRI LIMESTONE DEPOSIT
AREA : - 38,129 Ha.
Shri Shrawan Kumar Pathak

PLATE - 3



ML area

Prepared by :-

R.C. BANSAL

(MINING ENGINEER)

