

MINING PLAN AND PROGRESSIVE MINE CLOSURE PLAN

OF

KARMA STONE MINE

VILLAGE - KARMA, P.O. - CHOUPARAN, DISTRICT - HAZARIBAGH, JHARKHAND - 825406



- LEASE AREA - 14.17 Hectares/35.00Acres
(APPLIED LEASE AREA – 13.94 Ha/34.44 Ac +
PROPOSED APPROACH ROAD – 0.23 Ha/0.56 Ac)
- LEASE PERIOD - FRESH, APPLIED FOR GRANT
- PLAN PERIOD - 2017-18 TO 2021-2022
- CATEGORY OF MINE - 'A' CATEGORY (OTFM) OPEN CAST MINE

TYPE OF LAND USE	AREA IN HECTARES/ACRES
FOREST LAND	14.17/35.00
TOTAL	14.17/35.00

PREPARED UNDER - Rule34 (A) of JMMCR, 2004 AMMENDMENT DATED 31.05.2014

- Rule 23B of MCDR, 1988

- APPLICANT -

APPROVED
अनुमोदित

Vijay Kumar Ojha
Deputy Director, Geology
Patna (M. Dinanagar)

M/s RAM CHANDRA MEHTA CAPTAIN ANAND APARNA DEVI

VILLAGE – BIGHA, P.O. – PHULWARIA, P.S. - NAWALSHAHI, DIST. - KODERMA, JHARKHAND - 825418

PREPARED BY,

GEMS PROJECTS PVT. LTD.

(REG. NO. – RQP/RNC/166/2014/B)

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

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1.0 LIST OF PLANS & SECTIONS

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10.5	FIRST YEAR DEVELOPMENT PLAN & SECTION	1:2000	V
10.6	SECOND YEAR DEVELOPMENT PLAN & SECTION	1:2000	VI
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1.1 LIST OF ANNEXURES

Sl. No.	DESCRIPTION	ANNEXURE NO.
11.1	COPY OF LEASE APPLICATION	I
11.2	COPY OF PARTNERSHIP DEED	II
11.3	COPY OF AFFIDAVIT	III
11.4	COPY OF WATER QUALITY TEST REPORT	IV
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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

INTRODUCTION

M/s Ram Chandra Mehta Captain Anand Aparna Devi has applied fresh Mining Lease for Stone over an area of **35.00 Acres (14.17Ha)** in Village - Karma, P.O. & P.S. - Chouparan of Hazaribagh district of Jharkhand State which includes approach road in forest land over an area 0.23 ha/0.56 ac.

Karma Stone Mine over an area of **14.17 hectares/35.00 Acres** in Village - Karma, P.O. & P.S. - Chouparan, Dist. – Hazaribagh, Jharkhand applied for Mining Lease in favour of **M/s Ram Chandra Mehta Captain Anand Aparna Devi** for a period of ten (10) years (Copy of the Mining Lease Application & Form B is enclosed as **Annexure – I & II**).

The lease for minor mineral is situated in the Village - Karma, P.O. – Chouparan, P.S. – Chouparan, Dist. – Hazaribagh (Jharkhand). The area is located in Survey of India Toposheet No. 72 H/7 (Ref: Key Plan - Plate No. III) and bounded by Latitude: **24° 24' 29.48" N to 24° 24' 47.58" N** & Longitude: **85° 24' 58.23" E to 85° 24' 56.12" E**.

The lease area is approached from NH31 at Chandwara at a distance of 12 Km towards Chak on Chandwara- Bachhi road and the Mine is approachable by Motorable road of 2 km from Chak village. The nearest Railway Station is Koderma which is located about a distance of 20 km from the lease area. The area in & around of the project is covered with thin forest.

The leasehold area is the fresh (virgin) area and rock exposures have been seen in the lease area. The production target of the lessee is about **605160 Cum per annum (Approx.)/71248 Cft. per day(Approx)**. The method of mining adopted is by opencast mechanized category 'A' (OTFM).

The Mining Plan & Progressive Mine Closure Plan of **Karma Stone Mine of M/s Ram Chandra Mehta Captain Anand Aparna Devi** has been prepared under **Rule 30 of Jharkhand Minor Mineral Concession (Modified) Rules, 2004 & Rule 23 B of MCDR 1988** for an area of **35.00 Acres or 14.17 Hectares** of area in Village - Karma in Hazaribagh district of Jharkhand and submitted to DMO, District Mining Office, Hazaribagh for its approval.



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Details of Mining Lease (ML) :-

Table - 1

Particular	Area in Ha/Ac	Postal Address	Type of Mineral	Status & Remarks
Karma Stone Mine of M/s Ram Chandra Mehta Captain Anand Aparna Devi	14.17/35.00	Village : Bigha Thana : Nawalshahi P.O. : Phulwaria District : Koderma State : Jharkhand PIN : 825418	Stone	

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1.0 GENERAL

1. a) Name of the applicant/lessee/Rule 45 registration no. :

M/s Ram Chandra Mehta Captain Anand Aparna Devi

Address:

Village : Bigha
Thana : Nawalshahi
P.O. : Phulwaria
District : Koderma
State : Jharkhand
PIN : 825418
Phone No. : 9431924560, 9934374690
Email : -----

1. b) Status of applicant/lessee:

Private Individual	-	Yes
Co-operative Association	-	No
Private Company	-	No
Public Limited Company	-	No
Public Sector Undertaking	-	No
Joint Sector Undertaking	-	No
Other (lease Specify)	-	No

1. c) Mineral(s) which is / are included in the prospecting license (For Fresh grant):

Not applicable

1. d) Mineral(s) which is / are included in the letter of Intent / lease deed:

Stone.

1. e) Mineral(s) which is the applicant /lessee intends to mine:

The lease is for the Stone Mine.

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1. F) Name of Recognized Person under rule 22C of MCR,1960 or a Person employed under clause (c) of Sub rule (1) of rule 42 of MCDR, 1988(Applicable for Scheme of Mining only)preparing Mining Plan:

Name : Gems Projects Pvt Ltd
Address : 1236/2 Lajpat Nagar, Near Lala Lajpat Rai School,
Pundag, Argora, Ranchi, Jharkhand- 834004
Pin Code : 834004
Phone No. : 0651-2902588
Email : gems.projects@yahoo.in
Mobile No. : 9431115961
Registration no. : RQP/RNC/166/2014/B
Date of Grant/
Granted on : 15.04.2014
Validity up to : Valid up to 14.04.2024

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2.0 LOCATION AND ACCESSIBILITY OF THE MINING BLOCK

1. a) Lease Details (Existing Mine):

The leasehold area is fresh (virgin) area.

Name of the Mine: Karma Stone Mine

Lat/Long of any boundary point: = 85° 24' 33.20", 24° 24' 40.29" - BP 1

Date of grant of lease: - Applied for Mining Lease (04.01.2016)

Period/Expiry Date: - Applied for Mining Lease for period 10 years

Date of Expiry - Not Applicable

Name of leaseholder - M/s Ram Chandra Mehta Captain Anand Aparna Devi

Postal address:

Name : M/s Ram Chandra Mehta Captain Anand Aparna Devi
Village : Bigha
Thana : Nawalshahi
P.O. : Phulwariya
District : Koderma
State : Jharkhand
PIN : 825418
Phone No. : 9431924560, 9934374690
Email : gems.projects@yahoo.in

2. b) Details of applied /lease area with location map (fresh area /mine):

Reference plan - Plate No. – I (Key Plan)

Total lease area /applied area: 14.17 Ha/35.00 Acres (13.94 ha/34.44 Ac. of Mining Lease
+ 0.23 ha./0.56 Ac. of Approached Road)

District & State : Dist. – Hazaribagh & State – Jharkhand

Taluka : Chouparan

Village : Karma

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Break up of leasehold land area.

Table – 2

Forest		Non-forest	
	Area (Ha)/Ac		Area ha/Acre
Forest land	14.17/35.00	(i) waste land,	Nil
		(ii) grazing land,	Nil
		(iii) Agriculture land,	Nil
		(iv) others(Raity land)	Nil
Total	14.17/35.00	---	Nil
Grand Total	14.17 Ha/35.00 Acres		

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 lease for minor mineral is situated in the village - Karma, P.O. – Chouparan, P.S. – Chouparan, Dist. – Hazaribag (Jharkhand). The area is located in survey of India Toposheet No. 72 H/7 (Ref: Key Plan - Plate No. III) and bounded by Latitude: 24° 24' 29.48" N to 24° 24' 47.58" N & Longitude: 85° 24' 58.23" E to 85° 24' 56.12" E.

The lease area is approached from NH31 at Chandwara at a distance of 12 Km towards Chak on Chandwara- Bachhi road and the Mine is approachable by Motoable road of 2 Km from Chak village. The nearest Railway Station is Koderma which is about a distance of 20 km from the lease area. The area in & around of the project is covered with thin forest.

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Toposheet No. with latitude & longitude of all corner boundary point/pillar:

Toposheet No. - 72 H/7

Table - 3

ML BD COORDINATES OF KARMA STONE MINE							
Pt.No.	Latitude	Longitude	Code	Pt.No.	Latitude	Longitude	Code
1	24° 24' 33.20"	85° 24' 40.29"	BP1	23	24° 24' 44.33"	85° 24' 58.10"	BP23
2	24° 24' 33.23"	85° 24' 42.06"	BP2	24	24° 24' 42.70"	85° 24' 58.11"	BP24
3	24° 24' 33.27"	85° 24' 43.84"	BP3	25	24° 24' 41.08"	85° 24' 58.13"	BP25
4	24° 24' 33.30"	85° 24' 45.61"	BP4	26	24° 24' 39.45"	85° 24' 58.14"	BP26
5	24° 24' 33.34"	85° 24' 47.39"	BP5	27	24° 24' 37.83"	85° 24' 58.16"	BP27
6	24° 24' 33.36"	85° 24' 48.67"	BP6	28	24° 24' 36.20"	85° 24' 58.17"	BP28
7	24° 24' 34.98"	85° 24' 48.68"	BP7	29	24° 24' 34.58"	85° 24' 58.18"	BP29
8	24° 24' 36.61"	85° 24' 48.69"	BP8	30	24° 24' 32.95"	85° 24' 58.20"	BP30
9	24° 24' 38.24"	85° 24' 48.70"	BP9	31	24° 24' 31.33"	85° 24' 58.21"	BP31
10	24° 24' 39.86"	85° 24' 48.71"	BP10	32	24° 24' 29.48"	85° 24' 58.23"	BP32
11	24° 24' 42.06"	85° 24' 48.72"	BP11	33	24° 24' 29.81"	85° 24' 56.41"	BP33
12	24° 24' 42.08"	85° 24' 49.66"	BP12	34	24° 24' 30.19"	85° 24' 54.68"	BP34
13	24° 24' 43.74"	85° 24' 49.65"	BP13	35	24° 24' 30.51"	85° 24' 53.17"	BP35
14	24° 24' 45.79"	85° 24' 49.64"	BP14	36	24° 24' 31.55"	85° 24' 51.55"	BP36
15	24° 24' 45.76"	85° 24' 51.80"	BP15	37	24° 24' 32.28"	85° 24' 50.41"	BP37
16	24° 24' 47.26"	85° 24' 51.81"	BP16	38	24° 24' 32.01"	85° 24' 49.55"	BP38
17	24° 24' 47.20"	85° 24' 53.92"	BP17	39	24° 24' 32.99"	85° 24' 47.94"	BP39
18	24° 24' 47.11"	85° 24' 54.11"	BP18	40	24° 24' 32.41"	85° 24' 46.29"	BP40
19	24° 24' 47.58"	85° 24' 54.34"	BP19	41	24° 24' 31.82"	85° 24' 44.63"	BP41
20	24° 24' 47.58"	85° 24' 56.12"	BP20	42	24° 24' 31.22"	85° 24' 42.96"	BP42
21	24° 24' 47.58"	85° 24' 58.07"	BP21	43	24° 24' 30.91"	85° 24' 40.27"	BP43
22	24° 24' 45.95"	85° 24' 58.08"	BP22				

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ROAD BD COORDINATES OF KARMA STONE MINE			
1	24° 24' 30.91"	85° 24' 40.27"	BP43
2	24° 24' 30.64"	85° 24' 38.52"	R1
3	24° 24' 30.37"	85° 24' 36.77"	R2
4	24° 24' 30.10"	85° 24' 35.02"	R3
5	24° 24' 29.83"	85° 24' 33.27"	R4
6	24° 24' 29.57"	85° 24' 31.66"	R5
7	24° 24' 29.79"	85° 24' 31.70"	R6
8	24° 24' 31.85"	85° 24' 32.71"	R7
9	24° 24' 32.18"	85° 24' 32.90"	R8
10	24° 24' 32.01"	85° 24' 33.08"	R9
11	24° 24' 29.86"	85° 24' 32.01"	R10
12	24° 24' 30.05"	85° 24' 33.26"	R11
13	24° 24' 30.33"	85° 24' 35.01"	R12
14	24° 24' 30.60"	85° 24' 36.76"	R13
15	24° 24' 30.87"	85° 24' 38.51"	R14
16	24° 24' 31.14"	85° 24' 40.26"	R15

2. 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 these are available, the area may be shown on an administrative map.

Key plan Prepared based on Survey of India Toposheet is attached as Plate – I

Applied Mining lease area plan over cadastral map is enclosed as Plate – II

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3.1 DETAILS OF APPROVED MINING PLAN / SCHEME OF MINING (if any):

Not applicable.

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PART – A

PART - A

1.0 GEOLOGY AND EXPLORATION:

1. a) Description of topography, drainage pattern, vegetation, climate, rainfall data of the mining lease area.

Topography:

Hazaribag district is the part of North Chotanagpur plateau, residual hills and inermontane valleys. The highest peak is the Parasnath (1350 msl) in the Madhuban forest forest. The District can be divided into three divisions namely the Central Plateau. The lower plateau and the damodar valley. The Central Plateau is situated in the central part of the district. Hazaribag town lies in this part having an average elevation of 600. The lower plateau is situated all around surrounding the Central plateau. The height of the lower plateau average to 450m. The Damodar valley region is situated in the southern part and extends through the block of Keredari, Barkagaon, Patratu, Ramgarh and Gola block. The average elevation varies from 150-200m.

The Lease area of **Karma Stone mine** of **M/s Ram Chandra Mehta Captain Anand Aparna Devi** exhibits hill type of topography in nature and mainly it represents gentle slope towards South direction and the lease area comprises moderate to gentle slope towards North-west direction. The highest elevation point of the lease area is at 405 m and the lowest point in the South side is about 387 m above M.S.L. The applied area is in forest.

Drainage Pattern:

The district is drained by two major rivers, the Damodar and the Barakar river with a few minor tributaries like Naikari, Bhera, Kusum, Bokaro, Mohana and Kumari. The Naikari with drainage from the south and further down the Bhera joins the Damodar river. The Damodar has I, II, III and IV order tributaries whereas the river Barakar has only II and III order tributaries namely Keso, Harhi, Barsot, Chandwara, Kolhuteri, Karkara and Kewta. In the Southern portion of the district, river Konar has a second order tributary viz. the Siwane river which is flowing south to South-East. All these tributaries show dendritic to sub-dendritic drainage pattern typical of granitic terrain. The Damodar and the Barakar rivers show structurally controlled pattern.

Vegetation:

The lease area is in forest and there is no existence of trees in this area. However, some Bushes are observed in the lease area.



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Climate:

The climatic condition of district is hot in summer from March to May and heavy monsoon rain occurred from June to September. Hence, winter season of the district is from November to February. Maximum temperature in summer season is 46°C and minimum temperature occurred in winter season is about 4°C.

Rainfall data:

The area receives rainfall by south-west monsoon. Rainy season sets in the middle of June and lasts till October. The normal average rainfall in the district is 1347 mm.

Monthly average rainfall of the district is given below:-

Months	Average Rainfall in mm.
January	30.4
February	16.4
March	2.2
April	21.8
May	2.2
June	120.0
July	267.7
August	217.9
September	101.1
October	16.6
November	55.2
December	00.0

Source – District Meteorological Office, Hazaribagh

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1. b) Brief description of Regional Geology with reference to location of Lease/applied area:

Regional Geology:

The district of Hazaribagh, which lies towards the north-eastern corner of Jharkhand, is largely covered by Chhotanagpur granites and gneissic complex associated with some metasediments and metabasic rocks. The Gondwanas have been developed in tectonic basin fill deposits and are resting on Archaean basements. The Gondwanas mainly consist of sandstones, shales, coal seams and are exposed in Chouparan and Chouparan blocks of the district. Alluvium occurring along the river channels and adjoining areas and are mainly composed of fine to coarse sand and clays. Laterites occur in isolated patches. About 70% of the district area is underlain by hard and compact granitic rocks, of Chhotanagpur plateau.

The geological succession of the area is as follows: -

- | | | | | | | |
|--|---|-------|---|--|---------------------------|---------------------|
| (1) Recent deposits of alluvium and laterite. | | | | | | |
| (2) Post Gondwana | | | | Dykes of basic Cretaceous-Eocene. | | |
| | } | Upper | | Igneous rock | | |
| | | | | Dyke of basic Jurassic and Triand Ultrabasic Jurassic. | | |
| | | | | Igneous rock | | |
| | | | | Panchet | Lower Jurassic | |
| | | | | Mahadevas | Lower Triassic | |
| | | | | Panchet Series | Upper Permian | |
| | | | | Raniganj Series | | |
| | | | | Iron Stone Shale | | |
| | | | | Middle Permian | | |
| (3) Gondwana Series | | | } | Lower | Damuda | Barakar Series |
| | | | | | With Karharbari Stage. | |
| | | | | | Talchir Series | Upper Carboniferous |
| | | | | | With glacial boulder bed. | |
| (4) Basic intrusive, meta dolerite, amphibolite and epidiorites. | | | | | | |
| (5) Mica pegmatites and granite pegmaties. | | | | | | |
| (6) Chhotanagpur granite gneiss. | | | | | | |
| (7) Dharwars-Crushed or fault breccia, garnet-amphibole schist, Granulites, schists, phyllites, quartzites, etc. | | | | | | |

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M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

1. 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).

Local Geology:-

The geology of the Karma Stone Mine of M/s Ram Chandra Mehta Captain Anand Aparna Devi comprises the stone formation and the general stratigraphy of this region is as follows. The geological formation of the lease area comprises mainly rocks of Chhotanagpur Plateau. Rock type of this region considered as Quartzite rock. These rocks are extensively used as building material and construction of road materials. The trend of the hill is almost in the North-East direction. On the basis of geological field study, a geological map, which has been prepared with a contour interval of 3 m showing all features of geology. (Refer Plate – IV).

The local geological succession of rocks in the lease area as observed during field study is as below,-

Soil	-	0.5 m avg. (Weathered rock)
Stone	-	continued

1. d) (i) Name of prospecting /exploration agency:

The lessee himself was carried out exploration work in the said lease area.

(ii) Address:

Village	:	Bigha
Thana	:	Nawalshahi
P.O.	:	Phulwaria
District	:	Koderma
State	:	Jharkhand
PIN	:	825418

(iii) Email address and phone no:

Email	:	-----
Phone No.	:	9431924560, 9934374690

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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1. 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.

No pitting & Trenching was done during exploration work.

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.

No any boreholes are required for the exploration process, because of it can be seen the rock exposure comprises lithology in the leasehold area.

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).

Not Applicable as the Stone is use as Building Materials.

iv) Expenditure incurred in various prospecting operations.

Total Expenditure incurred for prospecting by lessee is Nil.

1. 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 28(1)(a) of MCDR 1988.

The Surface plan is prepared after conducting topographical survey by deploying electronic total station survey equipment. Accordingly, the plan is prepared showing all surface features & contour at interval of 3 meter, road, etc. as exists in Scale 1:2000. The same is enclosed as Plate III.

1. 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 28 (1) (b) of MCDR 1988.

In view of the above the Surface Geological plan has been prepared on a scale of 1:2000 with contour interval of 3 m. The detail of Geological survey work carried out including evidence of stone existence has been shown on the Geological Plan (Plate – IV).

1. h) Geological sections may be prepared on natural scale of geological plan at suitable interval across the lease area from boundary to boundary.

Geological sections is prepared and attached as Plate IV.


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1.i) Broadly indicate the future programmed of exploration with due justification(duly marking on Geological plan year wise location in different colors) taking into consideration the future tentative excavation programmed planned in next five years as in table below: -

The lease area is forest land and no any quarry has been developed within the lease area; therefore there is no requirement for further exploration programme within the same leasehold area.

1.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.

RESERVES AND RESOURCES FOR STONE AS PER UNFC CODE:- Table - 4

Classification	Code	Quantity in cum	Grade of mineral
Total Mineral Resources (A+B)		6864150	Road and building material
A. Mineral Reserve			
(1) Proved Mineral Reserve	111	5725050	
(2) Probable Mineral Reserve	122	569550	
B. Remaining Resources			
(1) Feasibility Mineral Resource	211	-----	
(2) Pre-feasibility Mineral Resource	221	-----	
Pre-feasibility Mineral Resource	222	-----	
(3) Measured Mineral Resource	331	-----	
(4) Indicated Mineral Resource	332	-----	
(5) Inferred Mineral Resource	333	569550	
(6) Reconnaissance Mineral Resource	334	-----	

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Thus the entire proved reserve as estimated is categorized as 111.



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Reserve Estimation

MINERAL RESOURCES & RESERVES

CLASSIFICATION OF RESERVE AS PER UNFC SYSTEM:

UNFC system has been adopted to categorize the mineral Resources and reserves. For the estimation of different mineral reserves, Occurrences of mineral of intrinsic economic interest, location, grade, quantity, geological characteristic etc. has been studied in detailed and are given hereunder:

A) Proved Mineral Reserve (111):

Detailed geological survey has been carried out and exposures have been found in the existing quarry. Sufficient exposures have been observed in the existing quarry. On that basis the proved reserve has been estimated based on the actual thickness of the stone body as exposed in quarry faces. Thus, geological axis can be brought under Geological axis (G1). Manpower/machine requirement has been estimated based on actual need. Infrastructure resources are already available. The stone of this area is commercial as to the demand of buyers. Thus, the reserve can be brought under Feasibility (F1). On economic front, the end use, land use pattern, working plan is already known or designed, thus, the reserve can be brought under Economic (E1). Thus proved reserves can be classified under 111 groups.

1. 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 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.

Estimation and calculations of the reserve:

The existence of Stone in the lease area has been established based on the field observation in accordance to the rock exposure. The reserve of stone mine has been estimated by cross sectional area method. A geological cross sections A-A' & BB' has been taken for estimating the reserve as shown in the geological plan. For reserve calculation up to depth of 60 m Stone has been taken proved reserve up to RL 345 m bench marks.

The following basic parameter has been considered for estimation of reserve of stone in the ML area.

1. Top of hill RL	405 m RL
2. Thickness of ore body	60 m
3. Recovery factor (overall)	95%
4. Tonnage factor	2.7 MT/cum
5. Generation of waste	5%

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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Method of Reserve Estimation:

Considering the above parameters, the different categories of geological reserve have estimated by cross sectional area method as follows.

GR = A x L x RF x TF Where,
GR - Geological Reserve (MT)
A - Cross sectional Area (sq.)
L - Length of influence (m)
RF - Recovery Factor (MT/cum)
TF - Tonnage factor (MT/cum)

The mineral reserve has been arrived at after deducting reserves blocked under the safety barrier (7.5 m from lease boundary) and under ultimate pit slope (45 degree) from the geological reserve. However, the summaries of geological and mineable reserves have been estimated and tabled below.

Geological Reserve of Stone (Proved) Table – 5

Section Considered	Cross section area	Length of influence	Volume in Cum.
A-A ^I	26750	195	5216250
B-B ^I	10600	48	508800
TOTAL			5725050

ii) Probable Mineral Reserve (122):

As the floor and side wall of the existing quarry is in the lease area, a further influence of 5 m depth has been considered. This extension of the stone body is kept under probable category assuming that the ore body may continue further. The geological axis can be brought under G2. On feasibility axis, there will be no displacement but environmental clearance has not taken. Thus, the reserves can be brought under F2. On the economic front, based on present scenario of market and infrastructure of area and grade of the stone from this area shall be utilized in lessee's own crusher. Hence it can be grouped under E1. Hence it can be grouped under E1. Thus probable reserve can be classified under 122 groups.

Geological Reserve of Stone (Probable): Table – 6

Section Considered	Cross section area	Length of influence	Volume in Cum.
A-A ^I	2650	195	516750
B-B ^I	1100	48	52800
TOTAL			569550

iii) Inferred Mineral Reserve (333)

As the floor and side wall of the existing quarry is in deposit zone, a further influence of 5m depth has been considered. This extension of the stone body is kept under possible category assuming that the ore body may continue further. But it is found that the stone available is not fully confirmed. The present market scenario this stone is not profit marketable due to expensive cost of mining, so we keep it in E3. It also found that the quality of stone deposit is gradually low in depth wise and the seepage of water is more so we keep it G3 and F3 category, thus inferred can be classified under 333 groups.

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MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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Geological Reserve of Stone (Possible) Table – 7

Section Considered	Cross section area	Length of influence	Volume in Cum.
A-A'	2650	195	516750
B-B'	1100	48	52800
TOTAL			569550

1. I) Mineral Reserves/Resources:

Mineral Resources: (Mineral resources may be estimated purely based on level of exploration, with reference to the threshold value of minerals declared by IBM)

RESOURCES FOR STONE

Table - 8

Level of Exploration	Resources in cum	Grade
G1 - Detailed exploration	-----	Road & building material
G2 - General Exploration	6864150	
G3 – Prospecting	-----	
G4- Reconnaissance	-----	

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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Resources and Reserves within the lease may be arrived after applying results feasibility/pre- feasibility study and economic evaluation of deposit based on various factors such as:

- a) Mining method, Recovery factor, mining losses, processing loss etc.
- b) Cutoff grade, Ultimate pit depth proposed.
- c) Mineral/ ore blocked dues to benches, barriers, pillars, road, railway, river, nala, reservoir, electric line and other statutory barriers etc, under forest, sanctuaries etc. where necessary permissions are not available.

RESERVES AND RESOURCES FOR STONE:- Table - 9

Particular	UNFC Code	Quantity in cum	Grade
A. Total Mineral Reserve			Road and building material
Proved Mineral Reserve	111	5725050	
Probable mineral Reserve	122	569550	
B. Total Remaining Resources			
Feasibility mineral Resource	211	-----	
Prefeasibility mineral resource	221 and 222	-----	
Measured mineral resource	331	-----	
Indicated mineral resources	332	-----	
Inferred mineral resources	333	569550	
Reconnaissance mineral resource	334	-----	
Total Reserves + Resources		6864150	

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2.0 – MINING

A - OPENCAST MINING

2. a) Description of existing as well as proposed method for excavation with all design parameters indicating on plans /sections.

Existing method of excavation with design parameter.

The applied lease area is virgin with existence some old abandoned pits within the area.

Description of proposed method for excavation with all design parameters.

The method of mining in this lease area will be opencast mechanized category 'A' (OTFM) mining with deployment of Poclain (bucket capacity 0.9 Cum), jack hammer (CPT 32 A) and compressor will be used at the time mining with combination of 10 ton truck/dumper capacity. Height of bench will be maintained at 6 m with a slope of angle about 45°. Width of the bench will be not less than the height of the bench. During the mining operation all the rule and regulations like Metalliferous Mines Regulations' 1961 framed under the Mines Act' 1952. Jack-hammer (CPT 32 A) will be used for drilling in the productive benches for blasting purposes and depth of the drill hole will be done up to the depth of 3.0m depth with the diameter of 25.4 mm. The holes shall be charged with Nitrate mixture ANFO. Run of mine (ROM) will be transported by 10t capacity truck to crushing plant.

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Indicate quantum of development and tonnage and grade of production expected pit wise as in table below:-

Year wise development & programme: **Table – 10**

YEAR	Section Considered	Cross Section area	Length of influence	Volume of Overburden (in Cum)	Volume of Stone (in Cum)
1 st year	A – A'	3366	180	12770	593110
2 nd year	A – A'	3379	180	34345	583875
3 rd year	A – A'	3380	180	7110	601290
4 th year	A – A'	3362	180	-----	605160
5 th year	A – A'	3360	180	-----	604800
Total				44225	2988235

2. b) Indicate year-wise tentative excavation in m³ along with development, ROM, pit wise as in table given below.

I – Insitu tentative excavation **Table - 11**

Development Year	Waste / OBR in m ³	Production of stone (ROM)		Stripping Ratio m ³ / te.
		Cum	MT	
1 st year	12770	593110	1601397	0.007
2 nd year	34345	583875	1576462.5	0.022
3 rd year	7110	601290	1623483	0.004
4 th year	-----	605160	1633932	-----
5 th year	-----	604800	1632960	-----
Total	44225	2988235	8068234.5	0.007

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

Rock exposure layout has been shown in development plan as mentioned above plate numbers and there is less generation of waste during this plan period. It is proposed that the waste to be generated during mining operation shall be used for making and maintaining the mine roads and surroundings etc. As such, proposal of separate dumping of waste is not given.

2. c) Enclose 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.

Brief descriptions of year wise development plans & section, showing rock exposure layout for Mining Plan period i.e. 2017-18 to 2021-22 are given below:-

1st Year Working Plan - Plate no V:-

In this year first of all, necessary mining road shall be made for the movement of machinery etc. and then gradually development start from Southern side of the lease area. Development shall be carried out through benching method. During this year about 32155.46 m² areas will be developed towards Southern side of the lease area with removal of overburden from the top for a depth of <0.50 m then gradual deepening with 8 benches of 3 m height and width will be not less than height to meet the surface level of lease area. During the 1st year mining will be started from the RL 395 m to 371 m.

FIRST YEAR BENCH WISE EXCAVATION OF O.B.

Table - 12 (i)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence (in m)	Volume of Stone (in Cum)
1	1 st bench	395.5 - 395	70.94	180	12770
Total					12770

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FIRST YEAR BENCH WISE EXCAVATION OF ROM Table - 12 (ii)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence (in m)	Volume of Stone (in Cum)
1	1 st bench	395 – 392	410	180	73800
2	2 nd bench	392 – 389	411	180	73980
3	3 rd bench	389 – 386	417	180	75060
4	4 th bench	386 - 383	412	180	74160
5	5 th bench	383 - 380	413	180	74340
6	6 th bench	380 - 377	418	180	75240
7	7 th bench	377 - 374	407	180	73260
8	8 th bench	374 - 371	405	180	73270
Total					593110

Total production Stone : **593110 Cum**
 Total O.B excavated : **12770 Cum**
 Grade : Building and road grade.

2nd Year working plan - Plate no VI:-

In this year, mining operation will be continued in the area of 38574.81 m² will be developed with eight production benches of 3 m & height and width will be not less than height. The surface will be removed as overburden for an approximate depth of 0.50 m. The advancement of the quarry will be achieved by progressive development towards centre of the lease area. (from the RL 395 m and reach to RL 371 m).

SECOND YEAR BENCH WISE EXCAVATION OF O.B.

Table - 12 (iii)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence (in m)	Volume of Stone (in Cum)
1	1 st bench	395.5 - 395	135.25	180	24345

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Total	24345
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SECOND YEAR BENCH WISE EXCAVATION OF ROM

Table - 12 (iv)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence (in m)	Volume of Stone (in Cum)
1	1 st bench	395 – 392	402	180	72360
2	2 nd bench	392 – 389	404	180	72720
3	3 rd bench	389 – 386	412	180	74160
4	4 th bench	386 - 383	410	180	73800
5	5 th bench	383 - 380	403	180	72540
6	6 th bench	380 - 377	407	180	73260
7	7 th bench	377 - 374	405	180	72900
8	8 th bench	374 - 371	400.75	180	72135
Total					583875

Total production Stone : **583875 Cum**
 Total O.B excavated : **24345 Cum**
 Grade : Building and road grade.

3rd Year stage Plan - Plate no VII:-

During this year about 35379.20 m² area will be developed sequential to the second year development towards northern boundary of the lease area with five production benches of 3 m height and width will be not less than height. The topmost layer will be removed so far for 0.50 m approx. as a surface of weathered rock or overburden. The advancement of quarry will be done from the RL 395 m and reach to RL 380 m.

THIRD YEAR BENCH WISE EXCAVATION OF O.B.

Table - 12 (v)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence (in m)	Volume of Stone (in Cum)
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1	1 st bench	395.5 – 395	39.5	180	7110
Total					7110

THIRD YEAR BENCH WISE EXCAVATION OF ROM

Table - 12 (vi)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence (in m)	Volume of Stone (in Cum)
1	1 st bench	395 – 392	670	180	120600
2	2 nd bench	392 – 389	667	180	120060
3	3 rd bench	389 – 386	669	180	120420
4	4 th bench	386 - 383	665	180	119700
5	5 th bench	383 - 380	669.5	180	120510
Total					601290

Total production Stone : **601290 Cum**
 Total O.B excavated : **7110 Cum**
 Grade : Building and road grade.

4th Year stage Plan - Plate no VIII:-

During this year working will be done in the area of 35832.08 m² with seven production benches of 3 m height and width will be not less than height. The advancement of the quarry will be achieved by excavation of stone deep from the surface exposed later to development programme of third year. Development shall be started from 380 m to reach the bottom surface, i.e, 359 m.

FOURTH YEAR BENCH WISE EXCAVATION OF ROM

Table - 12 (vii)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence(in m)	Volume of Stone (in Cum)
1	1 st bench	380 – 377	483	180	86940
2	2 nd bench	377 – 374	481	180	86580
3	3 rd bench	374 – 371	479	180	86220
4	4 th bench	371 – 368	480	180	86400

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5	5 th bench	368 – 365	481	180	86580
6	6 th bench	365 – 362	478	180	86040
7	7 th bench	362 – 359	480	180	86400
Total					605160

Total production Stone : **605160 Cum.**
Grade : Building and road grade.

5th Year stage Plan - Plate no IX:-

In this 5th year working will be continued in the area of 62141.11 m² with four production benches of 3 m height and width will be not less than height. Development shall be carried out by further deepening the surface level of 1st year development. Mining activity will be done from the RL 371 m and reach to RL 359 m.

FIFTH YEAR BENCH WISE EXCAVATION OF ROM

Table - 12 (viii)

Sl. no.	Name of bench	REDUCE LEVEL (in m)	Cross Sectional area (in Sq. m)	Length of Influence(in m)	Volume of Stone (in Cum)
1	1 st bench	371 – 368	842	180	151560
2	2 nd bench	368 – 365	841	180	151380
3	3 rd bench	365 – 362	840	180	151200
4	4 th bench	362 – 359	837	180	150660
Total					604800

Total production Stone : **604800 Cum.**
Grade : Building and road grade.

2. d) Salient features of the proposed method of working indicating Category of mine.

The Mining Plan envisaged mechanized Category 'A' Mine (OTFM), in which deployment of suitable size of mining production machinery can be used. Accordingly, height of bench has been kept as per regulation 106 of MMR 1960.

Method of working remains the same as shown in manual quarry i.e. entire mining mass is

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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divided into bench which is worked by deepening method but because of adoption of mining machinery, bench height is increased which facilitates concentration of production so that mining equipment can be deployed.

Other reasons to adopt this methodology:-

- i. Higher output to the quantity of stone.
- ii. Geo-mining condition of mining mass.
- iii. By maintaining correct profile of the proposed quarry so that mining equipment can be shifted to different benches easily.
- iv. Drudgery of pick cutter / basket loading can be reduced to minimum.

List of Machineries for excavation are given below:

Table – 13

Sl. No.	Particulars of Machine	Nos	Purpose
1	Excavator cum loader bucket capacity – 0.9 cum	06	Excavation & development of faces
2	Jack – hammer	2	Drilling / blasting
3	Compressor	2	For Jack – hammer
4	Truck	14	Transportation
5	Water sprinkler	01	For water spraying on haul road to control air pollution.

2. e) Description of 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.

Year wise layout of mine working, are shown in stage plans (development plans) of each year working. Plate No. V to IX shows development of faces at the end of individual year during mining plan (i.e. 2017-18 to 2021-22) respectively.

Pit road layout inside the mine and surface road for transport to the Crusher plant along with approach in the leasehold area are given in Plate No. V to XII.

2. f) Conceptual Mine planning up to 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 and rehabilitation showing on a plan with few relevant sections.

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

Conceptual Mine Planning from 1st Year to up to the end of lease.

As per **UNFC Classification** Present Geological reserve & resources is 6864150 Cum of stone lying upto a depth up to RL 345 meter from the highest surface level of 405 meter. The Mineable reserve lying within ultimate pit limit is 6253778 Cum, refer to table no. 14. The Proposed year wise RoM production target is 605160 Cum, so the life of mine is $6253778/605160 = 10.3$ Years.

Calculation of Reserve on the basis of Ultimate Pit limit:-

Table no - 14

Section Considered	Cross section area (in Sq.m)	Length of influence (in m)	Volume of Stone (in Cum)
A-A'	29486	195	5749970
B-B'	10496	48	503808
TOTAL			6253778

Surface plan (**Plate no. III**) have been prepared for **Karma Stone Mine (14.17 Ha/35.00 Acre)** in which surface contouring have been done at the interval of 3 m. The plan also shows un-metal road & rock exposure etc.

Geological Plan (**Plate no. IV**) have been prepared in which exposed geological formation & existing quarry etc. has been shown.

Geological Cross Section Plan (**Plate no. IV**) drawn to show the behavior of ore body/rock body, surface undulation etc. has been shown.

i) Production:

The proposed production of stone during Mining Plan period i.e. 2017-18 to 2021-22 (5 yrs.) & Life of Mine (2027 - 28) is as follows:-

Table -15

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

Plan Period	Production of Stone in Cum
2017 – 18	593110
2018 - 19	583875
2019 - 20	601290
2020 - 21	605160
2021 - 22	604800
Total	2988235
Overburden	44225
2022 - 23 to 2027 - 28 (Conceptual Period)	3221318
Grand Total	6253778

ii) Disposal of waste rocks and in saleable mineral:

Waste dump:

It can be seen from the development programmed that there will be very less generation of waste during this plan period. It is proposed that the waste to be generated during mining operation shall be used for making and maintaining the mine roads and surroundings etc. As such, proposal of separate dumping of waste rocks is not given.

iii) Land Use Pattern:

Land use: The leasehold area comprises the virgin area so; proposed land use pattern is as follows-

PROPOSED LAND USE FOR FIVE YEAR PLAN PERIOD - Table - 16

Sl. No.	Pattern of land use	Area in Hectare	Area in Acres
1	Proposed Five Year Quarry	10.45	25.81
2.	Proposed approach road inside the lease area	0.17	0.43
3	Proposed approach road	0.23	0.56

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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	within forest land		
4	Proposed Plantation	1.80	4.45
5	Area Un- utilized	1.52	3.75
	Total	14.17	35.00

Land use at the end of plan period:

Total **25.81 Acres/10.45 Ha.** area shall be used due to mining and allied activities by the end of the plan period.

Land use at conceptual stage:

This has been shown in Conceptual plan & Sections. It has been calculated that total **29.99 Acres/12.14 Ha.** area will be in use due to excavation.

CONCEPTUAL LAND USE PATTERN FOR LIFE OF MINE

Table – 17

Sl. No.	Pattern of land use	Area in Hectare	Area in Acres
1	Proposed Quarry	12.14	29.99
2	Prohibited & Protected Safety zone area earmarked for mining operation	1.80	4.45
3	Proposed Approach Road within Forest Land	0.23	0.56
	Grand Total	14.17	35.00

iv) Reclamation & Rehabilitation:

As stated earlier the generation of waste is very less and it will be utilized for the maintenance and making of mine road and surroundings etc. The excavated area shall be reclaimed at the end of life of mine and rehabilitated by spreading top soil with sapling plantation.

Existing position:

The lease area is virgin.

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

Reclamation at the end of plan period:

There is no proposal of reclamation of quarry during this plan period due to the area is not fully exhausted.

Reclamation at conceptual stage:

As stated earlier the generation of waste is very less and it will be utilized for the maintenance and making of mine road and surroundings etc. The Mining lease area is exists on the ground surface and surface level of the excavated area would be 330 meter after end of life of mine. The excavated area shall be reclaimed by waste from nearby area. Top soil would be spread over the reclaimed area. Spring planation shall be done and the said land shall handed over to Forest Department

vi) Afforestation:

Afforestation for the ensuing plan period would be carried out over the safety zone as given below:

DETAILS OF AFFORESTATION SCHEME FOR FIVE YEAR PLAN PERIOD

Table - 18

Sr. No.	Year	Over the green belt in Ha/Acre	Over the excavated quarry area Ha/Acre	Number of Plants
1	2017 - 18	0.36/0.89		576
2	2018 - 19	0.36/0.89		576
3	2019 - 20	0.36/0.89		576
4	2020 - 21	0.36/0.89		576
5	2021 - 22	0.36/0.89		576
	Total	1.80/4.45		2880
6	2022 - 23 to 2027 - 28 (Life of Mine)		12.14/29.99	19424
		1.80/4.45	12.14/29.99	
	Grand Total		13.94/34.44	22304

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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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B. UNDERGROUND MINING

Underground mining is not technically feasible in Karma Stone Mine of M/s Ram Chandra Mehta Captain Anand Aparna Devi. As the deposit is occurred at a depth up to 60 m from the top contour of the lease area.

i) Mode of entry (adit, incline, shaft, ramp / incline).

Briefly describe the reason for choosing the mode of entry and its location with justification. Describe development and stoping method.

Not applicable as mine is of opencast working

iii) Underground layout

Attach a note briefly describing the underground layout using longitudinal sections / longitudinal vertical projection and level plans where necessary indication;

- sizes and intervals of levels and raises / winzes with proper reasoning
- proposed year wise/level wise extent of development for five years along with the support system

Not applicable as mine is of opencast working

iii) System of drilling and blasting

Table - 19

Drilling pattern in ore	Nil/Na
Drilling pattern in Rock	Nil/Na
Drilling pattern in Stopes	Nil/Na
Maximum number of holes blasted in a round.	Nil/Na
Charge per round (Kg)	Nil/Na
Charge per hole (kg)	Nil/Na
Type of explosive	Nil/Na
Powder factor (Norms)Rock development- Ore development- Stope-	Nil/Na
Powder Factor (Actual)Rock development- Ore development- Stope -	Nil/Na


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**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
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iv) Method and sequence of stoping

Describe briefly the method of stoping to be adopted, illustrated by plan, cross sections and longitudinal sections indicating broad parameters in the table below. In case it is open stoping attach a Geo technical report from a National Reputed agency on stability of open stops. In case of filled stopes the detail of filling method to be described with supporting plans and sections. Broader thumb rule in respect of development be considered.

Table - 20

	Stope parameters:	Nil/Na
1	Number of working stopes	Nil/Na
2	Size of the panel	Nil/Na
3	Level interval	Nil/Na
4	Thickness of crown pillar	Nil/Na
5	Thickness of Sill pillar	Nil/Na
6	Thickness of Rib pillar	Nil/Na
7	Size and interval of Stope pillar	Nil/Na
8	Size/shape of man way	Nil/Na
9	Size/shape of ore pass	Nil/Na
10	Method of stowing/back filling	Nil/Na
11	Method of drainage of stowed water	Nil/Na

v) System of underground transportation: Describe in the table below.

Table - 21

From face to pit bottom or loading point. – Not applicable
From pit bottom to surface. – Not applicable
From surface to end use plant. – Not applicable
Safety features provided on conveyor/ haulage track/ roadway– Not applicable

vi) System of winding / hoisting:

Attach a note briefly describing the system and linking with its adequacy for the desired rate of material and man handling,

Not applicable as mine is of opencast working

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vii) Subsidence management may be described as below.

Table – 22

1	Whether surface areas being monitored are marked on plan? Details of surface features in the subsidence basin	Nil/NA
2	Whether monitoring points have been marked on plan as well as on ground?	Nil/NA
3	Maximum subsidence observed at monitoring points (mm)	Nil/NA
4	At what frequency subsidence monitoring is done?	Nil/NA
5	Whether results of monitoring are being properly recorded?	Nil/NA
6	Angle of draw observed on dip and strike side.	Nil/NA
7	Whether critical, sub-critical or super-critical area extracted?	Nil/NA

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M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

Conceptual Mine planning up to the end of lease period taking into consideration the present available reserves and resources describing the ROM excavation, Disposal of waste, stowing/backfilling, surface subsidence, reclamation and rehabilitation showing on a plan with few relevant sections.

Not applicable as mine is of opencast working

viii) Mine ventilation:

Not applicable as mine is of opencast working

ix) Extent of Mechanization

Describe briefly with calculation for adequacy and type of machinery and equipment proposed to be used in different activities of drilling, material handling in development and stope, hauling, hoisting to surface, surface transportation and any:

i) CALCULATION FOR REQUIREMENT OF EXCAVATOR.

The Excavator will be backhoe type with 0.9 cum bucket capacity with combination of tippers of 10MT (4.5 cum) capacity.

- a) Bucket fill Capacity = 0.9 cum
- b) Effective capacity of the Bucket = 0.81 cum
- c) Capacity of the dumper = 4.5 cum
- d) Effective capacity of the dumper of 0.9 factor = 4.05 cum
- e) No. of bucket require to fill a bucket = $(4.05/0.81) - 5$
- f) Average cycle time for excavation, loading Of material to a tipper = 6 minutes.
- g) Average utilization of time per shift with 80% utilization factor = 400 minutes.
- h) Number of cycle per shift = $(400/6) = 67$.
- i) Average excavation, loading capacity of Excavator per shift = $(67 \times 4.05) = 271.35$ cum
- j) Total working day in a year = 300 days
- k) Total Excavation and Loading capacity = 81405 cum.

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Table - 23

Year	1 st year	2 nd year	3 rd year	4 th year	5 th year
Year-wise quantity of material to be excavated and loaded. (cum)	605880	608220	608400	605160	604800
No. of working excavator required	6	6	6	6	6


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From the above table it is clear that Six excavator is required.

ii) CALCULATION FOR REQUIREMENT OF DUMPERS FOR DESPATCH OF STONE FROM MINE TO CRUSHER UNIT.

For stone Transportation:

The product stone shall send to crusher unit for crushing by dumper. For this, dumpers are required. The detailed calculation is given hereunder:

- a) Average Hauling distance both way = 2000 m.
b) Average traveling time both way @ 15 kmph = 13 minutes (avg)
c) Average Loading time = 6 minutes
d) Average un-loading time = 2 minutes
e) Average cycle per trip = 11 minutes
f) Effective working time per shift with 80% utilization factor = 336 minutes
g) Average no. of trips per shift per dumper = $336/11 = 30$ nos.
h) Carrying capacity of the Truck = 4.35 cum
i) Hauling capacity of dumper per shift = 130.50 cum
j) Hauling capacity of dumper per shift per annum = 39150 cum

Year-wise requirement of dumpers for stone boulder transportation

Table - 24

Years	1 st year	2 nd year	3 rd year	4 th year	5 th year
Year-wise quantity of stone to be transported. (cum)	593110	583875	601290	605160	604800
No. of Trucks required	14	14	14	14	14

From the above table it is clear 14 Trucks are required.

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iii) Drilling:

Jack-hammer (CPT 32A) will be used for drilling in the productive benches for blasting purposes and depth of the drill hole will be done up to the depth of 3.0m depth with the diameter of 25.4mm as and when required. The holes will be charged with ANFO. The run-of-mine (ROM) will be transported by 10 t capacity truck to a crushing plant, which is located outside the lease area. In this type of deposit, no fixed pattern of blasting shall be done. Besides drilling and blasting, rock breaker will also be used for size reduction.

The following machines are proposed to be deployed to carry out mining operation in this mine refer table no. - 13

Transport from mine head to the destination (crusher point):-

The excavated stone material have been taken out from the pit head to destination i.e. crusher plant located outside the lease area will be transported by own Truck as well as hired dumpers as required time to time.

iv) Loading equipment:

Excavator cum loader with size of bucket 0.9 cum will be deployed at the time of mining operation and Trucks will be deployed for transporting the excavated ROM stone from mine head to crushing unit.

v) Miscellaneous:

Describe briefly and allied operations and machineries related to the mining of the deposit not covered earlier:

There is no allied operation.

BLASTING:

Describe briefly:

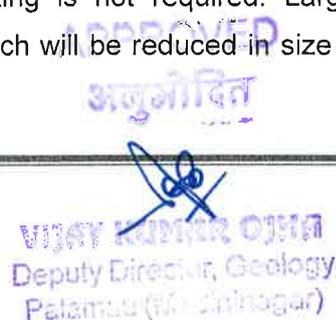
a) Broad blasting parameters like charge per hole, blasting pattern, charge per delay, maximum number of holes blasted in a round, manner and sequence of firing, etc.

For fragmentation and dislodging the hard stone, blasting is required. For this, drilling hole and blasting method is proposed to be adopted in the mine. The drilling hole shall be made by Jack-hammer (CPT 32A) driven by air compressors. Jack-hammer (CPT 32A) will be used for drilling in the productive benches for blasting purposes and depth of the drill hole will be done up to the depth of 3.0m with the diameter of 25.4 mm as and when required. Not more than 10 holes will be fired in one round. However, regular blasting is not required. Large sized boulders will be excavated by using hydraulic Excavators which will be reduced in size by drilling blasting as well



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as by using hydraulic rock breakers.

i) Specification of Jack-hammer Drill

*	Jack hammer	-	CPT 32A
*	Diameter of the drill rod	-	25.4 mm
*	Consumption of compressed air-		2-2.5 cum/min
*	Pressure supplied up to	-	6 kgf/sq.m

ii) Holes Required per Day:

Requirement of hole per day is not specific. Both rock breaker and blasting will do as per requirement.

b) Type of explosive used/to be used:

To carry out blasting the holes will be charged with ANFO, class- III (Special Gelatin 80% strength) as per requirement of hardness of the stone and buster as well as class-vi explosive (detonator/ Electric detonator and safety length) will be used in the mine as per requirement of explosive.

c) Whether secondary blasting is needed, if so describe in brief:

Not applicable.

d) Storage of explosives (like capacity and type of explosive magazine):

Blasting will be done as per requirement of hardness of the stone and buster as well as class-vi explosive (detonator/ Electric detonator and safety length) will be used in the mine as per requirement of explosive.

e) Precautions to be observed during drilling and blasting:-

All the necessary precautions such as hoisting of red flag at a safe distance, alarming the people by whistling and shouting will be taken before blasting. A qualified blaster having blasters certificate will do blasting. Delay blasting will be done to control flying rock particles to avoid effect of blasting on nearby agricultural fields.

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3.0 MINE DRAINAGE

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

Maximum depth of water is 65 m from the top contour of the lease area.

3. b) Indicate maximum and minimum depth of Workings

Maximum & minimum depth of working is up to 45 meter from the top contour of the lease area.

3. 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

As the depth of ground water level varies from 65 m from top contour level and the mining activity will be done above the water table. Hence, it is not for seen any ground water seepage in the mined out area.

However in rainy season water will accumulate in the quarry for this water pump will be used for dewatering.

3. d) Description of 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.

No river or nallah is passing through the lease area. Mayurkashi river is at a distance of 31.5 kms in North –east direction away from the area which is tributary of Damodar river. However two main rivers of the districts are **Barakar River** and **Damodar River**. The Damodar river flows from South to east in the southern part of the district from west to east are Naikari, Bhera, Kusum, Bokaro, Mohana, and Kumarii and these are the tributaries of the **Barakar River**. Damodar river is the main river in the Southern part of the district which flows from south and east to North West.

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4.0 STACKING OF MINERAL REJECT/SUBGRADE METERIALS & DISPOSAL OF WASTE

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

The waste (overburden) consists of weathered soil which is reddish in color and gritty in nature.

4. 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.

There is no any proposal for external dumping is suggested under the plan period. From the development plan, it is clear that there will be less generation of overburden and intercalated waste from total excavation. It is proposed that all the waste shall be used for making and maintaining the mine road and surroundings etc.

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

Due to the less generation of waste from the excavated area it is used for making and maintaining the mine road and surroundings. Hence, there is no any proposal is required for disposal of waste in the mining plan period.

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5.1 USE OF MINERAL AND MINERAL REJECT

The following are to be furnished in the interest of mineral conservation.

5.1 a) Description of the requirement of end-use industry specifically in terms of physical and chemical composition.

It is a raw material used for road, railway, building construction work. There is no chemical specification stipulated by any buyers. Only physical specification such as different sizes (0-5mm 21%), (5-10mm 17%), (10-20mm 31%) and (20-40mm 26%) (Fines 05%) is required for different purposes. All the materials will be consumed by buyers.

5.1 b) Brief requirement of intermediate industries involved in up gradation of mineral before its end-use:

Not applicable.

5.1c) Detail of requirements for other industries, captive consumption, export, associated industrial use etc.

Not applicable.

5.1 d) Indicate precise physical and chemical specification stipulated by buyers.

It is a raw material used for road, railway, building construction work. There is no chemical specification stipulated by any buyers. Only physical specification such as different sizes (0-5mm 21%), (5-10mm 17%), (10-20mm 31%) and (20-40mm 26%) (fines 05%) is required for different purposes. All the materials will be consumed by buyers.

5.1 e) Details of processes adopted to upgrade the ROM to suit the user requirements.

It is a raw material used for road, railway, building construction work. Only sorting and sizing is done as per consumer's requirement. All the materials will be consumed by buyers.

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6.0 PROCESSING OF ROM AND MINERAL REJECT

6. 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.

Stone is used as raw material in road, civil construction etc. As such, no beneficiation is required. Only different sizes are required by different consumers. All the production of stone shall be utilized in lessee own crusher for size reduction as per the requirement. For this, lessee has installed a crushing/screening unit outside the lease area.

6.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.

Not required as ROM is directly dispatch to the buyer

6. c) Explain the disposal method for tailings or reject from the processing plant.

Not required as ROM is directly dispatch to the buyer

6. 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.

Not required as ROM is directly dispatch to the buyer.

6. e) Specify quantity and type of chemicals if any to be used in the processing plant.

Not required as ROM is directly dispatch to the buyer

6. f) Specify quantity and type of chemicals to be stored on site / plant.

Not required as ROM is directly dispatch to the buyer

6. 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.

Water Balance Chart -

1. Potable - 6 KLD for drinking purpose,
2. dust suppression - 6 KLD along haul road,
3. Green belt development – 8 KLD,

Total - 20 KLD

Source - Bore well for drinking water and surface water for sprinkling & green belt.

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7.0 OTHER

Describe briefly the following:

7. a) Site services:

All the necessary facilities like drinking water, first-aid box etc. will be provided at the mine site.

7. b) Employment Potential:

Manpower deployment shall be as follows:-

Table - 25

Highly skilled person:	10
Skilled person :	15
Semi-Skilled person:	25
Unskilled person:	40
Grand total:	90

Semi-skilled and unskilled person may employed by surrounding villages.

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8.0 PROGRESSIVE MINE CLOSURE PLAN UNDER RULE 23 OF MCDR'1988

8.1 Environment Base line information: Attach a note on the status of baseline information with regard to the following.

Existing land use pattern indicating the area already degraded due to mining, roads, processing plant, workshop, township etc. in a tabular form.

Existing Land Use Pattern:

Table - 26

Land Use	Existing Land Use Area in Ha
Partially back filled quarry	NIL
Fully reclaimed area	NIL
Waste dump (external)	NIL
Road	NIL
Infrastructure	NIL
Total used area	NIL
Total lease area	NIL

Water regime:

There is no water body within the lease area. The mining will be restricted up to a moderate depth & the water table of the area is far below the ground and mining activity will be done above the water table. So, no seepages could be seen and entrance of surface water is not possible. Except during rainy season water could be clogged in the quarry.

Quality of air:

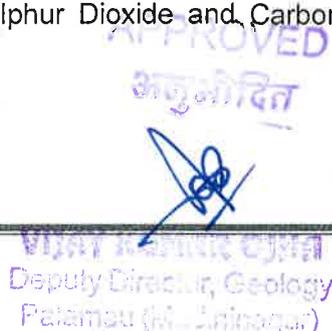
The potential sources of air pollution from the mining are drilling, blasting, exhaust fumes of internal combustion machines and transportation of ore in the vicinity. Air pollution caused by mining and associated activities can be classified into the following categories:

- Gaseous pollutants (Nitrogen Oxides, Sulphur Dioxide and Carbon Monoxide); and
- Suspended Particulate Matter.



Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B


Deputy Director, Geology
Palamou (M. Jinnagar)

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

Ambient noise level:

In this small mine the noise level will be up to tolerable limit (80 db A°) and the noise level can be reduced by:

- i. Choosing suitable equipment.
- ii. Proper maintenance of vehicles.
- iii. Afforestation.

Flora:

The lease area is in non-forest (Raity land) and there are no trees exist in this area.

Following is the list of flora found within 5 KM radius to the lease.

List of Flora-

Table – 27

Common Name / Local Name	Scientific name
Mahua	Madhuca latifolia
Palas	Butea frondosa
Banyan	Ficus benghalensis
Cheju/kauri (Khajur)	Phoenix dactylifera
Bamboo	Babusa tulda
Sal, Sakhuna	Shorea robusta
Margosa/Neam	Azadirachta indica
Peepal/Pipal	Ficus religosa

Climatic condition:

The climatic condition of district is hot in summer from March to May and heavy monsoon rain occurred from June to September. Hence, winter season of the district is from November to February. Maximum temperature in summer season is 46°C and minimum temperature occurred in winter season is about 4°C. The average rain fall of the area is 1347 mm.

Human settlements:

There are no human settlements within the lease hold, so there will be no displacement of PAF.

Public buildings, places of worship and monuments:

There are no Public buildings; Historical monuments & place of worship within the lease hold area.



Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

APPROVED

VIJAY KUMAR GUPTA
Deputy Director, Geology
Palamu (H. Jharkhand)

MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI

Indicate any sanctuary is located in the vicinity of leasehold:

There is no any sanctuary is located within the vicinity of leasehold area.

8.2 Impact Assessment: Attach an Environmental Impact Assessment Statement describing the impact of mining and beneficiation on environment on the following:

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

Proposed Five Year Land use:

Table - 28

Sl. No.	Pattern of land use	Area in Hectare	Area in Acres
1	Proposed Five Year Quarry	10.45	25.81
2.	Proposed approach road inside the lease area	0.17	0.43
3	Proposed approach road within forest land	0.23	0.56
4	Proposed Plantation	1.80	4.45
5	Area Un- utilized	1.52	3.75
	Total	14.17	35.00

APPROVED

अनुमोदित


VIJAY KUMAR SINGH
Deputy Director, Geology
Palamu (B. Jharkhand)



Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

ii) Air quality: Impact & Management

Emission of dust due to movement of Vehicles and mining machineries, drilling & blasting will produce impact on air.

Mitigation Measures

a) The production of blast fumes containing noxious gases should be reduced by the following methods:

- Proper and proportionate mixing of fuel oil with ammonium nitrate to ensure complete detonation;
- Use of adequate booster/primer; and
- Proper stemming of the blast hole.

b) Advanced blasting technology to be adopted to minimize the damage on aquifers;

c) Dust due to drilling should be minimized by using wet drilling methods;

d) Regular maintenance of vehicles and machinery should be carried out in order to control emissions;

e) Cabins for jack hammer and dumpers and dust respirators to workmen should be provided;

f) Dust generated due to traffic roads should be reduced by water spraying at regular intervals;

g) Trucks should be covered with tarpaulin, during the transportation.

h) Greenbelt development should be taken up all along the roads;

i) The dust respirators should be provided to all workers in dusty atmosphere;

j) A good housekeeping and proper maintenance should be practiced which will help in controlling pollution.

The location of the sampling point is shown on environment plan.

iii) Water quality: Impact & Management

Mining shall be carried out at a maximum depth of 36 meter from the ground surface. Existence of surface water sources are not in the lease hold area. So there is no change in the quality of water for the said plan period.

However, Rain water accumulated in the quarry shall be dewatered after testing and so far the drinking water is concern, the sources is far from the lease hold area.

Water quality test report is enclosed as **Annexure – IV**

B. B. J. AM
Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

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[Signature]
Deputy Director, Geology
Palamu (Madhynagar)

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

iv) Noise levels: Impact & Management

In this small mine the noise level will be up to tolerable limit (80 db A) and the noise level can be reduced by the followings:

The deployments of HEMM equipment are very much limited and working shall be done in a single location. Therefore, noise level shall be below the tolerable limit (80dbA).

v) Vibration levels (due to blasting): Impact & Management

In this mine, the vibrations are caused due to blasting. The vibrations by their mechanical effects act on existing rocks and subject them to tensile, compressive and shearing stresses, which spoil their mechanical characteristics with an immediate consequence.

Control of Vibrations:

- Blasting are performed strictly as per the guidelines specified under blasting technology;
- Overcharging is avoided;
- The charge per delay are minimized and preferably more number of delays are used per blasts;
- Blasting operations are carried out only during day time as per Mine Safety guidelines;
- A safe distance of about 500 m from center of blasting is maintained;
- During blasting, other activities in the immediate vicinity are temporarily stopped;
- Drilling parameters like burden, depth, diameter and spacing are properly designed to give proper blast;
- The mesh ratio E/V shall always be more than unity $E/V > 1$ (E = hole spacing, V = distance between rows);
- Effective stemming of the explosives are done in the drill holes;
- The explosives Have;
 - High velocity of detonation;
 - Density suited to its particular application;
 - Good fume characteristics;
 - Good water resistance; and
 - Good storage qualities and resistance to atmospheric pressures and conditions.

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VIJAY KUMAR DIMA
Deputy Director, Geology
Palamou (Jharkhand)


Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

vi) Water regime:

Impact & Management

There are no water bodies within the lease area. The mining will be restricted up to a moderate depth above the water table & the water table of the area is far below the ground because. So, no seepages could be seen and entrance of surface water is not possible. Except during rainy season water could be clogged in the quarry.

vii) Acid mine drainage:

There will be no acid in mine drainage

viii) Surface subsidence:

There will be no surface subsidence as the mine working is by opencast method only.

ix) Socio-economics:

There is no habitation within the lease hold area. So there will be no displacement of PAF. But due to mining activity, socio economic conditions of nearby villagers would be improves by getting employment.

x) Historical monuments etc.

There is no historical monuments are found in the vicinity of the lease area.

8.3 Progressive reclamation Plan:

To mitigate the impacts and ameliorate the condition, describe year wise steps proposed for phased restoration, reclamation of lands already/ to be degraded in respect of following items separately for 5 years period.

The excavated area shall be reclaimed only after fully exhausted of mineral. As the mineral continued in depth, so reclamation during this plan period is not proposed.

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Deputy Director, Geology
Palamcu (W. Jinnagar)

B.B. Jai

Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

The details of proposed plantation are given below in the Table:

DETAILS OF AFFORESTATION SCHEME

Table no. – 29

Sr. No.	Year	Over the green belt in Ha/Acre	Over the excavated quarry area Ha/Acre	Number of Plants
1	2017 – 18	0.36/0.89		576
2	2018 - 19	0.36/0.89		576
3	2019 – 20	0.36/0.89		576
4	2020 – 21	0.36/0.89		576
5	2021 - 22	0.36/0.89		576
	Total	1.80/4.45		2880
6	2022 - 23 to 2027 - 28 (Life of Mine)		12.14/29.99	19424
		1.80/4.45	12.14/29.99	
Grand Total		13.94/34.44		22304

Precautionary measures will be taken for carrying of the afforestation made by regular watering in the afforested area, to protect from grazing animals and proper manuring. Man will be deployed for protecting and doing the above.

8.3.1. Mined-Out Land:

Describe the proposals to be implemented for reclamation and rehabilitation of mined-out land including the manner in which the actual site of the pit will be restored for future use. The proposals may be supported with yearly plans and sections depicting yearly progress in the activities for land restoration/ reclamation/rehabilitation, afforestation etc., called "Reclamation Plan".

Production:

The production target for the next five years is as under:

Year	Production of stone in cum
2017 – 18	593110
2018 - 19	583575
2019 - 20	601290
2020 - 21	605160
2021 - 22	604800
Total :	2988235

Table – 30

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VIJAY KUMAR OJHA
Deputy Director, Geology
Palamu (Bilaspur)


Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

After the conceptual mining plan period, on the basis of proposed production planning and available reserve position, the ultimate pit area, ultimate pit depth, ultimate generation of waste, final pits slope, afforestation programmed is given in the following table:

Table - 31

Ultimate pit area for stone	12.14 Ha
Average Ultimate pit depth	60 m
Ultimate generation of waste	44225 cum
Total No. of plantation during the plan period	2880
Total No. of plantation at the conceptual Stage	22304

Reclamation and rehabilitation –

The excavated area shall be reclaimed & rehabilitated only after fully exhausted of mineral.

Land Use Pattern: Existing

Table – 32

Land Use	Existing Land Use Area in Ha
Old pits	NIL
Partially back filled quarry	NIL
Fully reclaimed area	NIL
Waste dump (external)	NIL
Road	NIL
Infrastructure	NIL
Total used area	NIL
Total lease area	NIL

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VIJAY KUMAR OJHA
Deputy Director, Geology
Palampur (S. Srinagar)

B. B. J. A. M.

Key Person,

Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

After Plan Period

The land Use Pattern at the end of 5 years plan period will be as under: **Table no. - 33**

Sl. No.	Pattern of land use	Area in Hectare	Area in Acres
1	Proposed Five Year Quarry	10.45	25.81
2.	Proposed approach road inside the lease area	0.17	0.43
3	Proposed approach road within forest land	0.23	0.56
4	Proposed Plantation	1.80	4.45
5	Area Un- utilized	1.52	3.75
	Total	14.17	35.00

Land use at the end of life of the mine:

Table no. - 34

Sl. No.	Pattern of Utilization	At Conceptual period Area in Ha.	At Conceptual period Area in Acre
1	Proposed Quarry	12.14	29.99
2	Prohibited & Protected Safety zone area earmarked for mining operation	1.80	4.45
3	Proposed Approach Road within Forest Land	0.23	0.56
	Grand Total	14.17	35.00

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VIJAY KUMAR SINGH
Deputy Director, Geology
Patna (M. Singhgar)



Key Person,

MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI

8.3.2 Topsoil Management: The topsoil available at the site and its utilization may be described.

Top soil management:

(i) **Top Soil:** The topsoil is reddish brown in color and gritty in nature. The soil is removed separately and used to maintaining the road.

8.3.3 Tailings Dam Management:

The steps to be taken for protection and stability of tailing dam, stabilization of tailing material and its utilization, periodic desilting measures to prevent water pollution from tailings etc., arrangement for surplus water overflow along with detail design, structural stability studies, the embankment seepage loss into the receiving environment and ground water contaminant if any may be described.

Not applicable.

8.3.4 Acid mine drainage, if any and it's mitigate measures.

There will be no acid mine drainage, hence mitigate measures is not required.

8.3.5 Surface subsidence mitigation measures through backfilling of mine voids or by any other means and its monitoring mechanism.

There will be no surface subsidence due to open cast mining

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VIJAY KUMAR OJHA
Deputy Director, Geology
Palamou (Jh. Jharkhand)



Key Person,

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

The information on protective measures for reclamation and rehabilitation works year wise may be provided as per the following table.

SUMMARY OF YEARWISE PROPOSAL FOR ITEM NO. 8.3

Table no. - 35

Items	Details	Proposed	Actual	Remarks
Dump management	Area afforested (ha)	Nil	Nil	
	No of saplings planted	Nil	Nil	
	Cumulative no of plants	Nil	Nil	
	Cost including watch and care during the year	Nil	Nil	
Management of worked out benches	Area available for rehabilitation (ha)	Nil	Nil	
	Afforestation done (ha)	Nil	Nil	
	No of saplings planted in the year	Nil	Nil	
	Cumulative no of plants	Nil	Nil	
	Any other method of rehabilitation	Nil	Nil	
Reclamation and Rehabilitation by backfilling	Cost including watch and care during the year	Nil	Nil	
	Void available for Backfilling (L x B x D) pit	Nil	Nil	
	Void filled by waste /tailings	Nil	Nil	
	Afforestation on the backfilled area	Nil	Nil	
	Rehabilitation by making water reservoir	Nil	Nil	
Rehabilitation of waste land	Any other means (specify)	Nil	Nil	
	Area available (ha)	Nil	Nil	
	Area rehabilitated	Nil	Nil	
Others specify	Method of rehabilitation	Nil	Nil	

8.4 Disaster Management and Risk Assessment:

This may deal with action plan for high risk accidents like landslides, subsidence flood, inundation in underground mines, fire, seismic activities, tailing dam failure etc. and emergency plan proposed for quick evacuation, ameliorative measures to be taken etc. The capability of lessee to meet such eventualities and the assistance to be required from the local authority may also be described.

The working is being carried out at shallow depth so heavy blasting is not required so no risk assessment or disaster management is required.

High risk factors such as earthquake, landslide, subsidence flood, fire, tailing dam failure etc. are not encountered nor anticipated during proposed five years plan period. As such, emergency plan for quick evacuation, protective measures are not proposed. Also, no local habitant exists as the working area is far away from the locality.

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अनुमोदित

VIJAY KUMAR OJHA
Deputy Director, Geology
Patna (Madaninagar)

B B JAM

Key Person,
Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI

8.5 Care and maintenance during temporary discontinuance:

An emergency plan for the situation of temporary discontinuance due to court order or due to statutory requirements or any other unforeseen circumstances may indicate measures of care, maintenance and monitoring of status of discontinued mining operations expected to re-open in near future.

Due to unforeseen reason the mine will be a closed temporarily then proper care of workers and staffs will be taken. Temporary discontinuance notice in the prescribed form D1 under rule 24 of M.C.D.R., 1988 will be sent to the concerned authority of Indian Bureau of Mines as well as in the prescribed form under MMR, 1961 to the authority of D.G.M.S., concerned State Government and concerned Labour Department within the stipulated time.

Security guards to take care of the infrastructure shall be kept under the roll of the management in case of any temporary discontinuation.

8.6 Financial Assurance:

The financial assurance can be submitted in any cashable form preferably a Bank Guarantee from a Scheduled Bank as stated in Rule 23(F)(2) of Mineral Conservation and Development Rules, 1988 for five years period expiring at the end of validity of the document. The amount calculated for the purpose of Financial Assurance is based on the CCOM's Circular no. 4 dated 2006 as below.

APPROVED
अनुमोदित

VIJAY KUMAR OJHA
Deputy Director, Geology
Palamau (J&K) Division



Key Person,

**MINING PLAN OF KARMA STONE MINE OVER AN AREA OF 14.17 Ha/35.00 ACRE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI**

**Table indicating the break-up of areas in the Mining Lease for calculation of Financial Assurance
Table no. - 36**

Sl. No	Head	Area put on use at Start of mining plan	Additional requirement during plan period	Total Ha.	Area considered as fully reclaimed & rehabilitated Ha.	Net area considered for calculation Ha.
A	B	C	D	E E = (C+D)	F	G G = (E-F)
		10.45	NIL	10.45	NIL	10.45
1.	Area under mining	NIL	NIL	NIL	NIL	NIL
2.	Storage for top soil	NIL	NIL	NIL	NIL	NIL
3.	Waste dump site	NIL	NIL	NIL	NIL	NIL
4.	Mineral storage	NIL	NIL	NIL	NIL	NIL
5.	Infrastructure-workshop, administrative building	NIL	NIL	NIL	NIL	NIL
	Roads	0.40	NIL	0.40	NIL	0.40
6.	Railways	NIL	NIL	NIL	NIL	NIL
7.	Tailing pond	NIL	NIL	NIL	NIL	NIL
8.	Effluent treatment plant	NIL	NIL	NIL	NIL	NIL
9.	Mineral separation plant	NIL	NIL	NIL	NIL	NIL
10.	Township area	NIL	NIL	NIL	NIL	NIL
11.	Others to specify (Parapet Wall & Garland Drain)	NIL	NIL	NIL	NIL	NIL
12.						
	Grand Total	10.85	NIL	10.85	-----	10.85

Computation for financial assurance:

Balance area under use – 10.85 Hectares
 Rate - Rs. 25000/- per hect. *****
 Amount for financial assurance – 10.85 Hects X Rs 25,000/- = Rs. 2,71,250/-

APPROVED

VIJAY KUMAR SINGH
 Deputy Director, Geology
 Palamau (Jharkhand)

B B Jain
 Key Person,
 Gems Projects Pvt. Ltd., RQP/RNC/166/2014/B

PART - B

M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI
Village – Bigha, P.O. - Phulwaria, P.S. - Nawalshahi, Dist. - Koderma, Jharkhand - 825418

CONSENT LETTER FROM APPLICANT

The Mining Plan & Progressive Mine Closure Plan in respect of Karma Stone Mine, for an area of 14.17 hectares in Village - Karma, P.O. - Chouparan, District - Hazaribagh and State - Jharkhand, Mineral : Stone has been prepared M/s **Gems Projects Pvt Ltd.**, Registration Number **RQP/RNC/166/2014/B**.

I request the District Mining Officer, Hazaribagh, Jharkhand to make further correspondence regarding modification of the mining plan with said recognized person on his following address:-

GEMS PROJECTS PVT LTD
REG.NO. RQP/RNC/166/2014/B
1236/2, Lajpat Nagar
Pundag, Ranchi-834004, Jharkhand

I hereby undertake that all the modifications so made in the mining plan by the recognized person be deemed to have been made with the knowledge and consent and shall be acceptable to me and binding on me in all respect.

Place : Hazaribagh

Date: 30.08.2017

APPROVED
अनुमोदित

VIJAY KUMAR GUPTA
Deputy Director, Geology
Palamau (M.-Jharkhand)

Signature

Name of the mine owner
M/s RAM CHANDRA MEHTA
CAPTAIN ANAND
APRANA DEVI

M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI
Village – Bigha, P.O. - Phulwaria, P.S. - Nawalshahi, Dist. - Koderma, Jharkhand - 825418

CERTIFICATE

“The Progressive mine closure plan complies all statutory rules, regulations, an order made by the central or state government, statutory organization, court etc. has been taken into consideration and wherever specific permission is required the concerned authorities will be approached.

I also give an undertaking to the effect that all measures proposed in this closure plan will be implemented in a time bound manner”

Place : Hazaribagh

Date : 30.08.2017

Signature

Name of the mine owner
M/s RAM CHANDRA MEHTA
CAPTAIN ANAND
APRANA DEVI

APPROVED

अनुमोदित


VIJAY KUMAR GUPTA
Deputy Director, Geology
Patna (Bihar)

M/s RAM CHANDRA MEHTA CAPTAIN ANAND APRANA DEVI
Village – Bigha, P.O. - Phulwaria, P.S. - Nawalshahi, Dist. - Koderma, Jharkhand - 825418

CERTIFICATE

“The provisions of Mines Act, Rule and regulations Made there under have been observed in the Mining plan of Karma Stone Mine, belonging to M/s Ram Chandra Mehta Captain Anand Aparna Devi mines and wherever specific permissions are required, the applicant will approach the D.G.M.S. Further, standards prescribed by D.G.M.S. in respect of minerals health will be strictly implemented”.

Place : Hazaribagh

Date : 30.08.2017

Signature

Name of the mine owner
**M/s RAM CHANDRA MEHTA
CAPTAIN ANAND
APRANA DEVI**

APPROVED

अनुमोदित


VIJAY KUMAR OJHA
Deputy Director, Geology
Palamou (Jharkhand)



GEMS PROJECTS PVT.LTD.

(RQP from INDIAN BUREAU OF MINES for Mining Plan & Scheme, Registered Company for DGPS Survey from GOVT OF JHARKHAND & GOVT OF ODISHA)

CERTIFICATE

This is a certify that the provisions of M.C.D.R. 1988 have been observed in the Mining Plan & Progressive Mine Closure Plan of **Karma Stone Mine**, for an area of **14.17 hectares** in Village - Karma, P.O. & P.S. - Chouparan, District - Hazaribagh, Jharkhand of **M/s Ram Chandra Mehta Captain Anand Aparna Devi** and wherever specific Permission is required, the applicant/ Mine Owner will approach the concerned authorities' i.e. District Mining Officer, Hazaribagh for granting the permission.

Place : Hazaribagh

Date : 30.08.2017

KEY PERSON

GEMS PROJECTS PVT LTD
REG.NO. RQP/RNC/166/2014/B
1236/2, Lajpat Nagar, Pundag
Ranchi-834004, Jharkhand

APPROVED

अनुमोदित


VIJAY KUMAR SINGH
Deputy Director, Geology
Patnao (M. Jalinagar)

ANNEXURES



नं. 'ए'

देखें नियम- 9 (2)

लधु खनिजों के खनन पट्टा के लिए आवेदन का प्रपत्र

(फार्म नं०- 1)

दिनांक- वर्ष 20 की तारीख

सेवा में,

समाहर्ता /
हजातीबाग
द्वारा
जिला खनन पदाधिकारी,
हजातीबाग

प्राप्त किया हस्ताक्षर
तारीख

महाशय,

मैं/हम झारखण्ड लधु खनिज समनुदान नियमावली, 2004 के अन्तर्गत खनन पट्टा देने के लिए आवेदन देते है/देता हूँ।

भारतीय स्टेट बैंक ड्राफ्ट नं. 163697 RS - 50000/- रु० कि राशि शूलक के रूप में दिनांक 01/01/2016 को पॉय हजातीबाग कोषागार का नाम अथवा भारतीय स्टेट बैंक की वह शाखा जो कोषागार के साथ व्यवसाय कर रहा है में जमा करा दिया गया है तथा संबंधित चालान इसके साथ संलग्न है।

वांछित विवरणी नीचे दिए जा रहे है।

विवरणी:-

- व्यक्तियों, फर्म अथवा आवेदन करने वाली कम्पनी का नाम- मैसर्स राम चन्द्र मेहता कौटन आनन्द अर्पना डेवी
- व्यक्तियों की राष्ट्रीयता अथवा कम्पनी अथवा फर्म प्रारंभ किए जाने हेतु निबंधन का स्थान। भारतीय
- व्यक्तियों का व्यवसाय अथवा कम्पनी के व्यवसाय की प्रकृति तथा व्यवसाय की प्रकृति तथा व्यवसाय स्थान। कृषि एवं व्यवसाय

4. व्यक्ति फर्म अथवा कम्पनी का पता— मेजर रामचन्द्र मेहता कैम्प आनडु अर्चना देवी
ग्राम— बीया, पोस्ट— फुलवरिया, थाना— भवमशाही
जिला— केडमा भारतकड पिन कोड 825418

5. खनिज अथवा एकाधिक खनिज जिनका आवेदक
उत्खनन करना चाहते है।

6. जिस अवधि के लिए खनन पट्टा वांछित है।

पच्चार
10 वर्ष

7. उस क्षेत्र की विवरणी जिसमें खनन पट्टा वांछित
है—

1. जिला— हुजारीबाग
2. राजस्व थाना— चौपारान
3. ग्राम/मौजा— करमा
4. जे0 एल0 सं0— थाना नं. 289
5. खेसरा सं0— मौजा— करमा प्लॉट नं. 771P, 772P
6. कुल रकवा— 35.00 एकड (पैलीय एकड)

8. 16" = 1 मील स्केल पर मैप अथवा प्लान का विवरण
जिसमें उपर्युक्त 7 में उल्लेखित क्षेत्र को अच्छादित
किया गया है, संलग्न है जो, जिस क्षेत्र के लिए
खनन पट्टा वांछित है उसकी पहचान तथा समुचित
सूचना देगा।

मानचित्र 5 प्रति

9. क्षेत्र की संक्षिप्त विवरणी

वन भूमि

10. राज्य सरकार के क्षेत्राधिकार के भीतर क्षेत्र तथा
खनिज जिसके लिए आवेदक अथवा संयुक्त रूप से
उसके साथ कोई अन्य व्यक्ति संयुक्त रूप से कार्य
करने की इच्छा व्यक्त की हो।

1. खनिज— पच्चार
2. क्षेत्र— मौजा— करमा, थाना नं. 289,
3. तालुक— रकवा 35.00 एकड (पैलीय एकड)
4. जिला— हुजारीबाग

क. पूर्व से खनन पट्टा "पट्टे" धारण करते है।

ख. पूर्व में आवेदन दिया है किन्तु अभी तक खनन
पट्टा स्वीकृत नहीं किया गया है। अथवा

ग. एक ही समय में आवेदन किया है।

हॉ रामचन्द्र मेहता परा धारण
करते है

11. संयुक्त अभिरूची की प्रकृति यदि उपर्युक्त 10 के
अन्तर्गत है तो

12. प्रथम वर्ष के दौरान उत्खनित होने वाले खनिज का
उपयुक्त अनुमानित परिमाण

10 लाख C.F.T

13. साधन जिसके द्वारा खनिज का उत्खनन किया जाएगा जैसे हाथ द्वारा श्रम करके अथवा यांत्रिक अथवा विद्युत शक्ति से तथा विचार किए गए यांत्रिकीकरण की मात्रा यदि कोई हो। श्रम एवं यांत्रिक के द्वारा
14. निदेश की जाने वाली प्रस्तावित राशि आपश्चकल/मुसाह
15. उत्खनन कार्य में आवेदक का पूर्व अनुभव है
16. वह तरीका जिसके द्वारा उत्खनिज खनिज का उपयोग किया जाएगा, अनुमानित उपभोक्ता तथा खनिज के उपयोग का स्थान सरकारी एवं गैर सरकारी
कारखाने एवं विद्यालय
17. कोई अन्य विवरण जो आवेदक देना चाहता हो अथवा समाहर्ता जिसे जानना चाहता है- खनन कार्य का अनुभव
18. इन नियमों के तहत विहित आवेदन शुल्क के भुगतान का विवरण तथा तरीका- भारतीय स्टेट बैंक ब्रांच नं. 163697
दिनांक 01/12/2016 RS - 5000/- पांच हजार
19. दो स्वअभिप्रमाणित पासपोर्ट फोटोग्राफ (नोट:- राज्य सरकार के खाते में जमा किए जाने वाले शुल्क का शीर्ष) केलन
20. ई-मेल (अनिर्वाय)-
21. मोबाईल नं० (अनिर्वाय) - 9431924560, 9934374690,

मैं/हम यह धोषणा करता/हूँ/करते हैं कि उपर्युक्त दिये गये विवरण सत्य है एवं मैं/हम खनन पट्टा प्रदान किये जाने के पूर्व, जैसा आपके द्वारा वांछित है, अन्य विवरण जिसमें सही प्लान तथा सुरक्षित जमा राशि आदि शामिल है, उपलब्ध कराने के लिए तैयार हूँ/हैं।

आपका विश्वासी

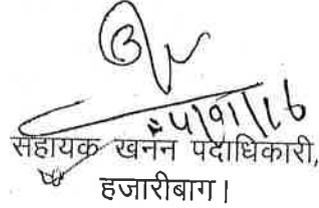
Ramchandra Mehra 
Anurupa Devi
आवेदक का हस्ताक्षर एवं पद

प्रपत्र बी०
(देखें नियम 10)
लघु खनिज के लिए खनन पट्टा की प्राप्ति का प्रपत्र

जिला खनन कार्यालय हजारीबाग।
आवेदन संख्या.....०२....., दिनांक ०५.०१.२०१६.....

आवेदक मेसर्स रामचन्द्र मेहता कैप्टन आनन्द अर्पना देवी, कार्यालय पता ग्राम- बीघा, पो०- फुलवरिया, थाना- नवलशाही, जिला- कोडरमा से हजारीबाग जिलान्तर्गत चौपारण थाना के मौजा करमा, थाना संख्या 289, प्लॉट संख्या 771(अंश) एवं 772(अंश) रकवा 35.00 एकड़ क्षेत्र क्षेत्र पर झारखण्ड लघु खनिज समनुदान नियमावली 2004 के नियम 9 के तहत लघु खनिज पत्थर खनन पट्टा की स्वीकृति हेतु दाखिल आवेदन पत्र प्रपत्र -ए, दिनांक 04.01.2016 के साथ निम्न कागजात प्राप्त किया :-

1. निर्धारित आवेदन शुल्क के मद में 5000/- (पाँच हजार) रुपये का बैंक ड्राफ्ट संख्या 163697 दिनांक 01.01.2016
2. विहित प्रपत्र ए जिसपर पाँच रुपये का कोर्ट फी स्टॉम्प एवं तीनों आवेदक का फोटो चिपकाया गया है।
3. आवेदकों का स्वामिस्व आदि बकाया नहीं रहने संबंधी षपथ पत्र, जो नोटरी पब्लिक कोडरमा के द्वारा पंजीकृत है की मूल प्रति।
4. आवेदकों का आधार कार्ड, भारत निर्वाचन आयोग द्वारा निर्गत फोटो पहचान पत्र एवं पैन कार्ड की छाया प्रति।
5. आवेदित क्षेत्र का मानचित्र ट्रेसिंग पेपर पर पाँच प्रति में।


सहायक खनन पदाधिकारी,
हजारीबाग।



AREA APPLIED FOR GRANT OF STONE MINING LEASE
 NAME AND ADDRESS OF APPLICANT -
 M/S RAMCHANDAR MEHTA CARTIAN ANAND APARNA DEVI
 ADDRESS - AT VILLAGE DIGHA, P.O. PHULWARIA,
 THANA - NAWAL SAHAI, DIST. KODERMA, JHARKHAND STATE,
 DETAILS OF THE APPLIED STONE MINING LEASE -

IN VILLAGE - KARMA, THANANO
 THANA - CHOUPARAN 289,
 DIST. HAZARIBAG,
 JHARKHAND STATE,
 PLOT NO. 771 (PART)
 AREA - 5.39 ACRES &
 PLOT NO. 772 (PART),
 AREA - 29.61 ACRES,
 TOTAL AREA - 35.00 ACRES
 = 14.17 HECTARES,
 SHOWN IN RED COLOUR

SCALE - 1/6 INCH = 1 MILE
 = 1 INCH = 330 FT.

VILLAGE -
 NAWADA

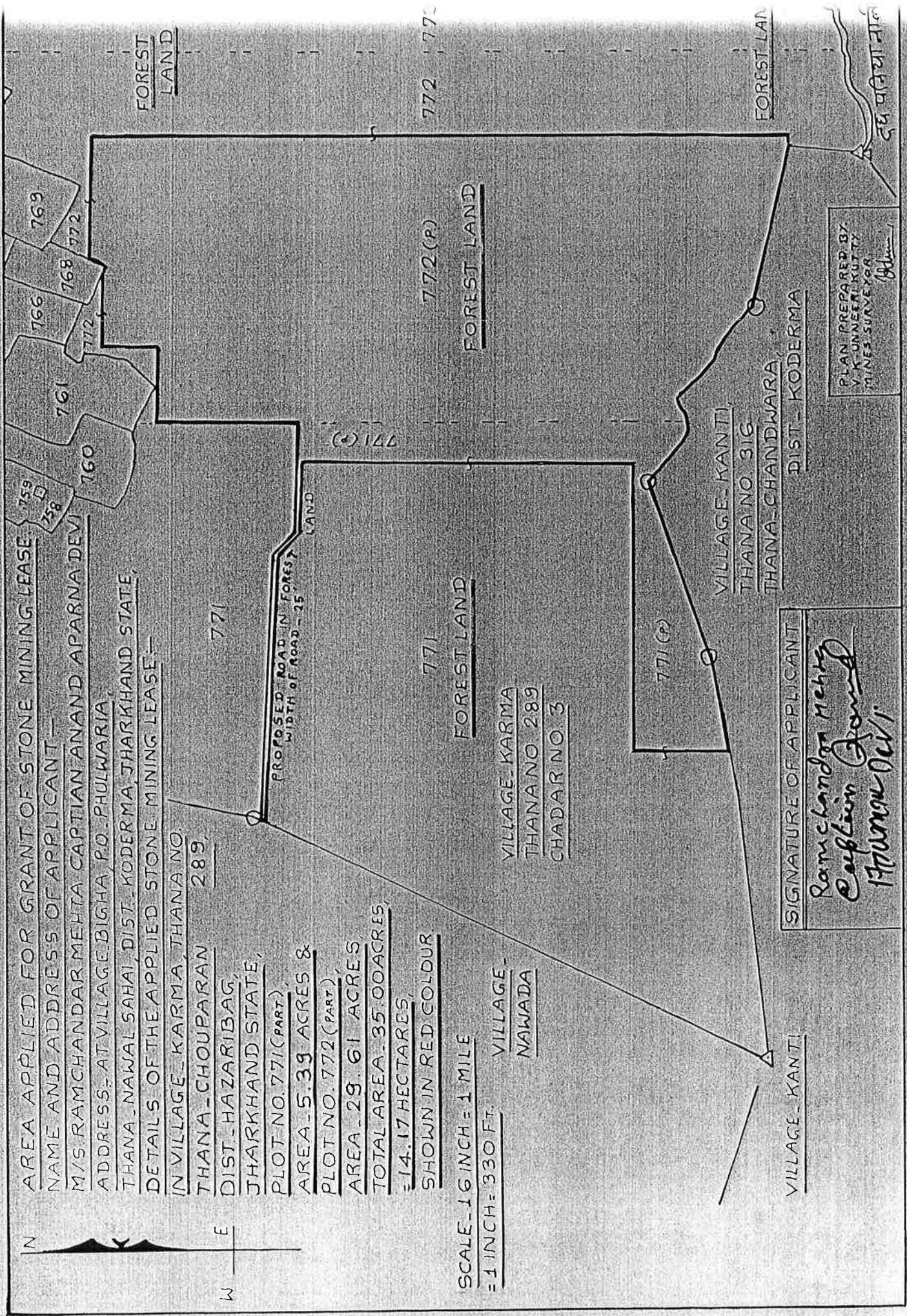
VILLAGE - KARMA
 THANANO 289
 CHADAINO 3

VILLAGE - KANTI,
 THANANO 316,
 THANA - CHANDWARA,
 DIST. - KODERMA

SIGNATURE OF APPLICANT

Ramchandar Mehta
Carlton Ram
 1771/1/1/1

PLAN PREPARED BY
 V. K. UNNEET KUTTY
 MINES SURVEYOR





झारखण्ड JHARKHAND

P.S. Chaparan Stamp 100 B 898235



Feelant

2. 2. 10000 - 0
 10 - 0
 1010 - 0

साझेदारी विलेख

यह साझेदारी विलेख आज दिनांक 08 माह जनवरी 2016 को मेसर्स रामचन्द्र मेहता, कैप्टन, आनन्द अर्पना देवी के साझेदार श्री रामचन्द्र मेहता (स्थाई लेखा संख्या-AMAPM4608A) पिता का नाम श्री छोटेलाल मेहता जाति-कोयरी चासा धर्म-हिन्दू, पेशा-गृहस्थी वो ब्यापार साकिन मौजा विधा पत्रालय फुलवरीया थाना नवलशाही जिला कोडरमा

Identities
 Manish Kumar Das
 s/o-Rambeli Das
 AT-Morigawan
 ward-08
 P.S.-Tefaily
 Dist-Koderma
 Jharkhand-8112016

Ramchandra Mehta 8-1-16
 Captain Anand
 8/1/2016
 Arpana Devi 8/1/16
 Manish Mehta
 8-1-16
 8/1/2016

46
 8-1-16

एवं
श्री कैप्टन आनंद पिता का नाम स्व० बनवारी लाल (स्थाई लेखा संख्या
-ADOPA8526E) जाति-तेली, धर्म हिन्दू, पेशा-व्यापार, राष्ट्रीयता भारतीय,
साकिन मौजा-बेलाटॉड, अन्दर नगरपर्वद झुमरी तिलैया वार्ड नं० 19 पत्रालय वो थाना
झुमरी तिलैया, जिला कोडरमा। -----द्वितीय साझेदार।

एवं
श्रीमति अर्पना देवी उर्फ अर्पना राय पति का नाम श्री महेश राय उर्फ महेशचन्द्र राय
(स्थाई लेखा संख्या-BWHPD5671A) जाति-ब्रह्मभट ब्रह्मण धर्म-हिन्दू,
पेशा-व्यापार, राष्ट्रीयता भारतीय, साकिन मौजा-ढोढाकोला पत्रालय-ढोढाकोला,
थाना-डोमचौंच, जिला कोडरमा। --- तृतीय साझेदार।

एवं
श्री मनोज मेहता (स्थाई लेखा संख्या-BLDPM8971R) पिता का नाम स्व० केदार
मेहता जाति-कोयरी चासा धर्म-हिन्दू, पेशा-गृहस्थी वो व्यापार, राष्ट्रीयता भारतीय,
साकिन मौजा-फुलवरीया पत्रालय-फुलवरीया, थाना-नवलशाही, जिला कोडरमा।
- चतुर्थ साझेदार।

एवं
श्री संतोष मेहता (स्थाई लेखा संख्या-BEJPM8068Q) पिता का नाम स्व० चमन
मेहता जाति-कोयरी चासा धर्म-हिन्दू, पेशा-गृहस्थी वो व्यापार, राष्ट्रीयता भारतीय,
साकिन मौजा-फुलवरीया पत्रालय-फुलवरीया, थाना-नवलशाही, जिला कोडरमा।
--- पंचम साझेदार।

साझेदार से अभिप्राय उनके वैध उतराधिकारी वारीशान प्राधिकृत अभिकर्ता
इत्यादी से भी है के बीच निम्नलिखित तथ्यों, शर्तों एवं दषाओं के आधार पर निष्पादित
किया जाता है।

यह कि साझेदारगण पत्थरों का ब्यवसाय करने का निर्णय कर एवं उक्त
निर्णय के तहत जिला हजारीबाग के अर्न्तगत चौपारण राजस्व थाना के मौजा करमा
थाना नं० 289 प्लॉट नं० 771 (अंश) रकवा 5.39 पॉच एकड उन्चालीस डी० एवं 772
(अंश), रकवा 29.61 उन्तीस एकड अरसठ डी० कुल रकवा 35 पैतीस एकड डी०
जमीन पर सरकार के प्राधिकार से उत्खनन अनुज्ञप्ति प्राप्त करने हेतु सरकार के
प्राधिकार जिला खनन कार्यालय हजारीबाग में दिनांक 04.01.2016 को आवेदित है
जिसका मेमो संख्या 2 है जो मेसर्स रामचन्द्र मेहता कैप्टन आनन्द अर्पना देवी के नाम
से आवेदित है जिसमें सभी साझेदारों का अपने अपने हिस्से के मुताबिक खनन पट्टा
प्राप्त करने हेतु आवश्यक खर्च का वहन किये है एवं आवश्यक खर्चों का वहन भी
साझेदारगण भविष्य में अपने अपने हिस्से के मुताबिक करेंगे।

यह कि साझेदारों के बीच उक्त ब्यवसाय को लेकर आपस में किसी प्रकार
का मन मुटाव न हो, ब्यापार का संचालन ब्यवस्थित वो सुदृढ रूप से चले, साझेदारों
के बीच किसी प्रकार का कानूनी दाव पेच ना रहे एवं साझेदारगण एक दूसरे के हक
हिस्से वो प्रभुत्व में किसी प्रकार का हस्तक्षेप अथवा कानूनी अडचन उत्पन्न न करे,
इसलिए साझेदारगण इस साझेदारी पत्र का निष्पादन कर एक दूसरे को करार करते
है जो निम्न है:-

1. यह कि उक्त फर्म मेसर्स रामचन्द्र मेहता कैप्टन आनन्द अर्पना देवी के नाम
से जाना जायगा जिसका मुख्यालय ग्राम विधा पोस्ट फुलवरीया, थाना
नवलशाही जिला कोडरमा होगा।

Ramchandra Mehta 8-1-16
Captain Anand 8/1/2016
Arpuna Devi 8/1/16
Manoj Mehta 8-1-16
SANTOSH MEHTA 8/1/2016

P/BG
8-1-16

2. यह कि उक्त व्यवसाय दिनांक 4.1.2016 से प्रभावी माना गया।
3. यह कि माईनिंग के लिए खनन पट्टा फर्म के नाम से सरकार के प्राधिकार से प्राप्त किया जा रहा है जिसमें सभी साझेदारों का अनुज्ञापति प्राप्त करने में खनन विकास का खर्च (Mines development expenses) एवं अन्य खर्च अपने अपने हिस्से के मुताबिक निवेशित किये है वो करेगे।
अतएव माईनिंग लीज पर प्रभुत्व सबों का अपने अपने हिस्से के मुताबिक रहेगा और माईनिंग लीज से संबंधित किसी प्रकार का निर्णय सबों की सहमति से किया जायेगा।
4. यह कि साझेदारगण भविष्य में भी अपने अपने हिस्से के मुताबिक पुंजी श्रम एवं अन्य साधनों का निवेश करेगे एवं साझेदारगण अपने अपने हिस्से के मुताबिक लाभ हानि के भागीदार होंगे।
5. यह कि इस व्यवसाय के लिए सभी बही खाते प्रचलित कानून के मुताबिक व्यवसायिक केन्द्र में उपलब्ध रहेगा तथा रोज रोज का हिसाब किताब सभी लिखित रूप से रखा जायेगा जिसका निरीक्षण एवं अवलोकन सभी साझेदार अथवा उनके अधिकृत प्रतिनिधि कार्यावधि में जब चाहें कर सकेंगे।
6. यह कि इस व्यवसाय का प्रबंधन व्यवस्था एवं देख रेख वो सरकारी कार्यालय के कार्यो का निष्पादन साझेदार अब्दुल रामचन्द्र मेहता करेगे जिसमें अन्य साझेदार आवश्यकता पडने पर साझेदार अब्दुल के आग्रह पर अपेक्षित सहयोग करेगें।
7. यह कि इस साझेदारी व्यवसाय में साझेदारों का हिस्सा निम्न प्रकार से है:-
क. श्री रामचन्द्र मेहता साझेदार प्रथम हिस्सा 18 अठारह प्रतिशत।
ख. श्री कैप्टन आनंद साझेदार द्वितीय हिस्सा 28 अठारस प्रतिशत।
ग. श्रीमति अर्पना देवी साझेदार तृतीय हिस्सा 28 अठारस प्रतिशत।
घ. श्री मनोज मेहता साझेदार चतुर्थ हिस्सा 13 तेरह प्रतिशत।
ड. श्री संतोष मेहता साझेदार पंचम हिस्सा 13 तेरह प्रतिशत।
8. यह कि इस भागीदारी व्यवसाय का वार्षिक लेखा जोखा प्रत्येक वर्ष के 31 मार्च को किया जायेगा अथवा समय समय पर भागीदारों की आम सहमति से वार्षिक लेखा जोखा का समय भी परिवर्तन किया जा सकेगा।
9. यह कि वार्षिक लेखा जोखा करते समय सलाना बैलेन्स सीट तैयार किया जायेगा जिसमें सम्पति के लेन देन का स्पष्ट लेखा जोखा तथा उसी के आधार पर लाभ हानि भी होगा जिसमें सभी हिस्सेदार अपने अपने हिस्से के मुताबिक उसके अधिकारी होंगे।
10. यह कि इस भागीदारी व्यवसाय फर्म के नाम से किसी राष्ट्रीयकृत बैंक में खाता खोला जायेगा जो साझेदारों के आम सहमति से संचालित होगा अथवा समय समय पर हिस्सेदारों की आम सहमति से जैसा निर्णय होगा उस निर्णय से संबंधित बैंक को लिखित रूप से अवगत कराया जायेगा, और हिस्सेदारों की आम सहमति के आधार पर भी फर्म के खाते में जमा रकम की निकासी हो सकेगी।
11. यह कि सभी साझेदारों की आम सहमति से जरूरत महसूस होने पर किसी अन्य साझेदार को इस साझेदारी व्यवसाय को सफलता पूर्वक चलाने के लिए सामील किया जा सकेगा।

Ramchandra Mehta-16
Captain Anand
8/11/2016

Arpna Devi
Mansoj Mehta 8/11/16
Santosh Mehta 8/11/2016

में निपटारा खनन कार्य जारी रखते हुए करेगे खनन कार्य किसी भी स्थिति में बन्द नहीं किया जायगा।

22. यह कि जैसे तथ्य जो इस साझेदारी पत्र में वर्णित नहीं किये जा सके हैं वे INDIAN PARTNERSHIP ACT 1932 के प्रावधानों के तहत निर्दिष्ट समझे जायेंगे।
23. यह कि यदि कभी साझेदारों के बीच कोई मतभेद या मनमुटाव इस व्यवसाय को लेकर पैदा हो जाए तो (Arbitration Act) के तहत साझेदार के द्वारा मनोनित पंचों के द्वारा उस विवाद का निपटारा किया जाएगा एवं पंचाट साझेदारों को मान्य होगा।

इसलिए साझेदारगण इस दस्तावेज के मजमुन को पढ़कर वो पढ़वाकर, सुन समझ कर, कबुल वो मंजुर कर गवाहन के समझ आज दिनांक 08.01.2016 को मोकाम कोडरमा में अपना अपना हस्ताक्षर वो छाप बनाये जो वक्त समय पर काम आवे।

प्रारूप कर्ता— नागेश्वर मेहता ल0 सं0 21/98 मोकाम कोडरमा। मैं नागेश्वर मेहता तस्दीक करता हूँ कि पक्षकारण को मजमुन वसीका पढ़कर सुना वो समझा दिया, सुन समझ कर कबुल वो मंजुर कर मेरे समझ अपना अपना हस्ताक्षर बनाये। बा0 कातिब

नागेश्वर मेहता
08/01/16

Manoj Mehta 8-1-16
08/01/16

Ramchan Das Mehta 8-1-16
Captain Ram
8/1/2016

Aruna Devi 8/1/16

Document Type	Partnership	Presenter	Ramchandra Mehta
Presenter Name & Address	Bigha, Ps.- Nawalshahi, Koderma	Date of Entry	08/01/2016
Comparable Doc Value	0	Total Pages	28
Document/Transaction Value	0	Book	IV
Special Type		CNO/PNO	Not Req.
Remarks / Other Details	Old Serial No. /	e-Stamp Cert No.	
Property Details:	App. ID		

Boundary	Th.No.	Wrd/Hlk	Mauza	Kh. No.	Plot No	Plot Type	Boundary North	Boundary South	Boundary East	Boundary West	H No	Category	Area	Min. Value
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Property Type	Th. No.	Wrd	Mauza	Location	Area	Rate	Amount
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SN	P Type	Party Name	Father/Husband	Occup.	Relation	Caste	Gender	PAN/F 60	UID	Mobile	Pres. Address	Perm. Address
1	FIRST PARTY	Ramchandra Mehta	Chhotelal Mehta	Business	पिता	कोइरी	Male				Bigha, Ps.- Nawalshahi, Koderma	Bigha Ps - Nawalshahi, Koderma
2	Party	Captan Anand	Late Banwari Lal	Business	पिता	तेली	Male				Belatand, Jhumri Telaiya Ward No 19. Ps.- Telaiya, Koderma	Belatand, Jhumri Telaiya Ward No 19. Ps - Telaiya, Koderma
3	Party	Aparna Devi @ Aparna Ray	Mahesh Ray @ Maheshchandra Ray	Business	पति	वईमभठ	Female				Dhodhakola, Ps.- Domchanch, Koderma	Dhodhakola, Ps.- Domchanch Koderma
4	Party	Manoj Mehta	Late Kedar Mehta	Business	पिता	कोइरी	Male				Fulwariya, Ps.- Nawalshahi, Koderma	Fulwariya, Ps.- Nawalshahi, Koderma
5	Party	Santosh Mehta	Late Chaman Mehta	Business	पिता	कोइरी	Male				Fulwariya, Ps.- Nawalshahi, Koderma	Fulwariya, Ps.- Nawalshahi, Koderma
6	Identifier	Manish Kumar Das	Rambali Das	Farmer	पिता	चमार	Male		420567853970		Moriyawan, Ward No 08, Ps.- Telaiya, Koderma	Moriyawan, Ward No 08, Ps - Telaiya, Koderma

SN	Description	Amount	CHC	Net Amount
	DD	1,000.00	10.00	1,010.00
	SP	420.00	0.00	420.00
	Total	1,420.00	10.00	1,430.00

Ramchandra Mehta
8/1/16

प्रत्येक प्रविष्टियों दस्तावेज में अंकित तथ्यों के अनुरूप है।

दस्तावेज लेखक का हस्ताक्षर प्रस्तुतकर्ता का हस्ताक्षर

सिंधन पूर्व सारांश में इंप्ट फार्म के अनुरूप डाटा इंद्रि की गई है।

डाटा इंद्रि ऑपरेटर का हस्ताक्षर

उपरोक्त दस्तावेज में अंकित तथ्यों के अनुरूप है।
 दाता इंद्रि ऑपरेटर का हस्ताक्षर
 दाता इंद्रि ऑपरेटर का हस्ताक्षर
 दाता इंद्रि ऑपरेटर का हस्ताक्षर
 दाता इंद्रि ऑपरेटर का हस्ताक्षर

कॉपी

पेशा

एल

ने की।

निबंधन पदाधिकारी का हस्ताक्षर

[Handwritten signature]

**निबंधन विभाग, झारखंड
कोडरमा**

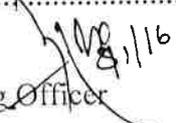
No.14 Token Date: 08/01/2016 13:31:44

Deed No./Year :119/12/2016

Type: Partnership

Party Details	Photo	Thumb
Ramchandra Mehta Father/Husband Name:Chhotelal Mehta (FIRST PARTY) Bigha. Ps.- Nawalshahi, Koderma		
Captan Anand Father/Husband Name:Late Banwari Lal (Party) Belatand, Jhumri Telaiya, Ward No. 19, Ps.- Telaiya, Koderma		
Aparna Devi @ Aparna Ray Father/Husband Name:Mahesh Ray @ Maheshchandra Ray (Party) Dhodhakola, Ps.- Domchanch, Koderma		
Manoj Mehta Father/Husband Name:Late Kedar Mehta (Party) Fulwariya, Ps.- Nawalshahi, Koderma		
Santosh Mehta Father/Husband Name:Late Chaman Mehta (Party) Fulwariya, Ps.- Nawalshahi, Koderma		
Manish Kumar Das Father/Husband Name:Rambali Das (Identifier) Moriyawan. Ward No. 08, Ps.- Telaiya, Koderma		

Doc No. IV
 Page No. 1
 Page 175 To 202
 Deed No. 119/12
 Year 2016
 Date 08/01/2016 15:22:09

Registering Officer 

Signature of Operator 



भारत सरकार



राम चन्द्र मेहता
Ram Chandra Mehta
जन्म तिथि/ DOB: 08/05/1968
पुरुष / MALE



4454 2740 8445

आधार-आम आदमी का अधिकार



भारतीय विधि प्रहान प्राधिकरण
NATIONAL AUTHORITY OF INDIA

पता:
बीघा, फुलवरिया, कोडरमा,
झारखण्ड - 825418

Address:
bigha, Phulwaria, Koderma,
Jharkhand - 825418

4454 2740 8445

Aadhaar-Aam Admi ka Adhikar

Ramchandra Mehta

8-1-16



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

पता: S/O: बनवारी लाल, 247, चींगम
आइस क्रीम फ़ैक्टरी, नया बस स्टैंड, वॉर्ड
24, झुमरी तिलैया, कोडरमा, झुमरी
तिलैया, झारखण्ड, 825409

Address: S/O: Banwari Lal, 247,
Cheers Ice Cream factory, New
Bus stand, ward 24, Jhumri
Tilaiya, Koderma, Jhumri Tilaiya,
Jharkhand, 825409

भारत सरकार
GOVERNMENT OF INDIA

कैप्टन आनंद
Captain Anand

जन्म वर्ष / Year of Birth : 1963
पुरुष / Male



7421 5684 7234



1947
1800 180 1947



help@uidai.gov.in



www.uidai.gov.in

P.O. Box No.1947,
Bengaluru-560 001

आधार — आम आदमी का अधिकार

Captain Anand

Captain Anand
8/1/2018

Unique Identification Authority of India

पिन कोड: 825407
पिन कोड: 825407
पिन कोड: 825407

Address: W/O: Mahesh Rai,
House No-107, Near Shiv
Mandir, Dhodhakola PO-
Dhodhakola, Dhuba, Sapahi
Koderna, Jharkhand. Pin:
825407

अपर्णा देवी
Aparna Devi

जन्म तिथि/DOB: 07/07/1975
महिला / Female



6850 3975 2410

6850 3975 2410

1947
1800 300 1947

help@uidai.gov.in

www.uidai.gov.in

आधार - आम आदमी का अधिकार

Aparna Devi
8/1/16

भारत सरकार

7/47

नाम

Manoj Mehta

7/47 1452 5314

NA



7/47 1452 5314

आम आदमी का अधिकार

भारत सरकार

7/47

नाम

Manoj Mehta

7/47 1452 5314

NA

Address

Manoj Mehta, Phulwara

Andhra

Dist: West Godavari

7/47 1452 5314

आम आदमी का अधिकार

Manoj Mehta

Manoj Mehta
8/01/2016


आधार
 संपन्नता के आधार पर आधारिकरण
 FOUNDATION FOR PROMOTING AADHAR IN INDIA

पता:
 S/O: चमन मेहता, फुलवरिया,
 फुलवरिया, फुलवरिया, कोडरमा,
 झारखण्ड, 825418

Address:
 S/O: Chaman Mehta, phulwaria,
 Phulwaria, Phulwaria, Koderma,
 Jharkhand, 825418

7685 8252 8482

 1947
 1800 300 1947

 help@uidai.gov.in

 www.uidai.gov.in


 सतोज मेहता
 Santosh Mehta
 जन्म तिथि / DOB : 01/01/1981
 पुरुष / Male




7685 8252 8482

आधार - आम आदमी का अधिकार

संतोष मेहता
 संतोष मेहता
 8/11/2016



Sl. No. :- M 1 to M 10000
dated : 26.10.2016

AFFIDAVIT / शपथ पत्र

मैं, रामचन्द्र मेहता निवासी श्री छोटेलाल मेहता, उम्र 47 वर्ष, श्री-विन्दू, पेशा -
घरपतया, राष्ट्रीयता-भारतीय, जाति-मौजा-बीघा, ग्राम-बीघा, पो-
कुलवारया, धाना-नवलशाही, जिला-कोडरमा राज्य-झारखण्ड शपथ पूर्वक
निम्नलिखित ज्ञान करता हूँ कि :

1. यहाँक मैं भारतीय नागरिक हूँ।
2. यहाँक आय कर विभाग का कोई बकाया मेरे उपर नहीं है।
3. यहाँक खनन विभाग का कोई बकाया मेरे उपर नहीं है।
4. यहाँक मेरे नाम से पूर्व में खनन अनुज्ञापत्र मिला है।

यहाँक मैं किसी भी अपराधिक मुकदमों में शामिल नहीं हुआ हूँ और
मेरे विरुद्ध किसी भी न्यायालय में किसी प्रकार का मुकदमा लीटवत है।
यहाँक मैं न्यूनतम मजदूरी अधिनियम वी प्रदूषण के नियमों का अक्षरशः
पालन किया करूँगा।

7 यहाँक मैं झारखण्ड गैरजा खनिज समानुद्धान निगमावली 2004 के नियमों का
अक्षरशः पालन करूँगा।

सत्यापन Ramchandra Mehta



I/We Ramchandra Mehta do hereby affirm that the contents of the above affidavit are true and correct to the best of my knowledge and belief and I have not concealed any material facts from the Court. This affidavit is made and sworn to before me on this 31.12.15 day of December 2015 at Koderma in the State of Jharkhand.
I, S. Pradhan, Notary Public, do hereby certify that the above affidavit is a true and correct copy of the original filed before me and I have not concealed any material facts from the Court.

Ramchandra Mehta

NOTARY PUBLIC
KODERMA

S. Pradhan
Notary Public
Koderma



Sl. No. :- M 1 to M 10000
dated : 26.10.2015



AFFIDAVIT / शपथ पत्र

मैं, कैप्टन आनन्द विपला स्वयं बनवारी लाल, उम्र 50 वर्ष, धर्म- हिन्दू, रा एन एल
भारतीय, पेशा- व्यवसाय, शांतिन- 207 र्क केन्द्री रोड नया बस स्टैंड अगला
नं०- 2500 झुमराती तैला, धाना- तैला, जिला- कोडरमा इस शपथ पत्र में
निम्नलिखित बतान करता हूँ कि :

- 1) यहाँक मैं भारतीय & नागरिक हूँ।
- 2) यहाँक आपकर विभाग का कोई बकाया मेरे उपर नहीं है।
- 3) यहाँक खजाने विभाग का कोई बकाया मेरे उपर नहीं है।
- 4) यहाँक मेरे नाम से कोई भू-जानन अनुदीप्त नहीं मिला है।
- 5) यहाँक मैं किसी भी अपराधिक मुकदमों में दण्डित नहीं हुआ हूँ और ना ही
किसी भी न्यायालय में किसी प्रकार का मुकदमा लीम्बत हूँ।
- 6) यहाँक मैं न्यूनतम मजदूरी अधिनियम को पुरुषणा के नियमों का अक्षरशः
पालन करता हूँ।
- 7) यहाँक मैं शरकाण्ड गौण ऑनियन समानुदान निगमावली 2004 के नियमों का
अक्षरशः पालन करूँगा।

सत्यापन

Captain Jambu

मैं, कैप्टन आनन्द सत्यापित करता हूँ कि इस शपथ पत्र के कौडमा 1 से 7 तक लिखी

is identified by Sri

मेरे विभाग को जानकारी में सही को बना है, जिसे वह एक समय का

2015 को कोडरमा न्यायालय-परिसर में हस्ताक्षर कराया।

NOT FOR PUBLIC

Captain Jambu

Identified by me in my presence

Advocate, Koderma
Date: 21/10/15



GEMS PROJECTS PVT.LTD.

In Association with M/s MAHARASTRA ENVIRO POWER LTD, Nagpur
(NABL ACCREDITED LABORATORY)

Ref. - _____

Date: - 25.07.2016

WATER QUALITY TEST REPORT OF KARMA STONE MINES OF M/s RAMCHANDRA MEHTA CAPTAIN ANAND APARNA DEVI

Sl No.	Characteristic	Requirement (desirable limits)	Permissible limits' in the absence of Alternate Source	Result
1	Colour, Hazen units Max,	5	-	<5
2	Odour	Unobjectionable	-	Unobjectionable
3	Taste	Agreeable	-	Agreeable
4	Turbidity, NTU, Max,	5	10	0.62
5	Ph value	6.5 to 8.5	No relaxation	7.24
6	Total Hardness (as CaCO ₃),mg /l, Max	300	600	368
7	Iron (as Fe), mg/l Max	0.3	1.0	0.79
8	Residual Free chlorine, mg /l ,Max	0.2	-	<0.1
9	Chloride (as Cl)mg/l, Max	250	1000	82.2
10	Fluoride (as F)mg/l , Max	1.0	1.5	0.58
11	Dissolved solids mg/l , Max	500	2000	616
12	Calcium (as Ca), mg, Max	75	200	89.8
13	Magnesium (as mg), mg,/ l Max	0.1	0.3	0.03
14	Manganese (as Mn), mg,/ l Max	30	100	35
15	Sulphate (as So ₄)mg /l, Max	200	400	71.8
16	Nitrate(as NO ₃), mg,/ l Max	45	100	48.4
17	Arsenic (as As), mg,/ l Max	0.05	No relaxation	<0.01
18	Alkalinity (as CaCO ₃), mg,/ l Max	200	600	400

S.P. Mishra
S.P.Mishra

Lab in-charge

Address KFR4094008
44 VIGHA
THANA NO. 81
P.O. FULWARIA, DIST. KODARMA
PIN 825418
पता
44 विघा
थाना नं. 81
पो. फुलवरिया, जिला कोडरमा
पिन 825418

Facsimile Signature
Electoral Registration Officer
निर्वाचक निबंधन अधिकारी

For
19 - Kodarma
Assembley Constituency

१९ - कोडरमा
विधानसभा निर्वाचन क्षेत्र

Place Kodarma

स्थान कोडरमा

Date 23/01/2005

दिनांक 23/01/2005

1780353

ELECTION COMMISSION OF INDIA
भारत निर्वाचन आयोग

IDENTITY CARD
पहचान पत्र

KFR4094008



Elector's Name Ramchandra Mehta

मतदाता का नाम रामचंद्र मेहता

Father's Name Chotalal Mehta

पिता का नाम चोटलाल मेहता

Sex Male

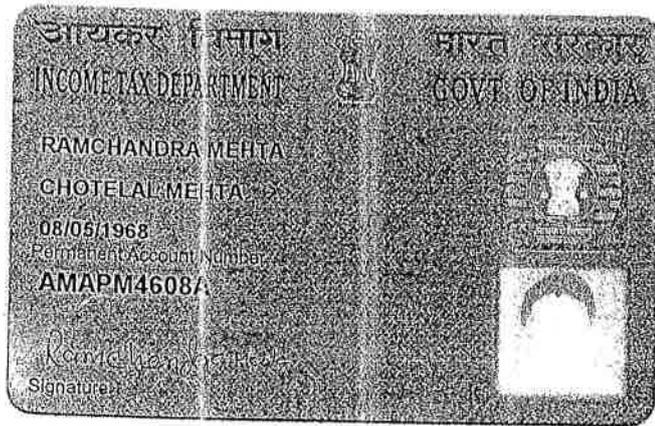
लिंग पुरुष

Age as on 2005 38

३१/१२/००५ तक आयु ३८

Ramchandra Mehta

Ramchandra Mehta



Ramchandra Mehta

Ramchandra Mehta



भारत सरकार
GOVERNMENT OF INDIA



राम चन्द्र मेहता
Ram Chandra Mehta
जन्म तिथि/ DOB: 08/05/1968
पुरुष / MALE



4454 2740 8445

आधार-आम आदमी का अधिकार



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

पता:
बीघा, फुलवरिया, कोडरमा,
झारखण्ड - 825418

Address:
bigha, Phulwaria, Koderma,
Jharkhand - 825418

4454 2740 8445

Aadhaar-Aam Admi ka Adhikar

Ram chandra mehta

Ram chandra mehta



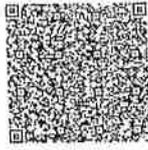
भारत सरकार
GOVERNMENT OF INDIA



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA



कैप्टन आनंद
Captain Anand
जन्म वर्ष / Year of Birth : 1963
पुरुष / Male



7421 5684 7234

पता: S/O: बनवारी लाल, 247, सीएम
आइएम क्रीम फैक्टरी, नया बस स्टैंड, वार्ड
24, झुमरी तिलाया, कोडरमा, झुमरी
तिलाया, झारखण्ड, 825409

Address: S/O: Banwari Lal, 247
Cheers Ice Cream factory, New
Bus stand ward 24, Jhumri
Tilaiya, Koderma, Jhumri Tilaiya
Jharkhand 825409

आधार — आम आदमी का अधिकार

1947
1800 100 1947

help@uidai.gov.in

www.uidai.gov.in

P.O. Box No.1947,
Bengaluru-560 001

Captain Anand

Captain Anand

ELECTION COMMISSION OF INDIA
भारत निर्वाचन आयोग

IDENTITY CARD
पहचान पत्र

KFR5897434



Elector's Name
मतदाता का नाम
Father's Name
पिता का नाम
Sex
लिंग
Age as on 1.1.2005
१.१.२००५ को आयु

Captain Anand
कैप्टन आनन्द
Late Banwari Lal
स्व. बनवारी लाल
Male
पुरुष
40
४०

THANA NO. 2
P.O. JHUMARI TILAIYA, DIST. KODARMA
PIN 825409

पता
247 बर्फ फैक्ट्री रोड नया बस स्टैण्ड
थाना न० - 2
पो. झुमरी तिलैया, जिला कोडरमा
पिन ८२५४०९

Facsimile Signature
Electoral Registration Officer
निर्वाचक निबंधन अधिकारी

For
19 - Kodarma

Assembly Constituency

१९ - कोडरमा

विधानसभा निर्वाचन क्षेत्र

Place
स्थान
Date
दिनांक

Kodarma
कोडरमा

12.01.2005

१२.०१.२००५

066/1118

Captain Anand

[Signature]

Captain Anand

भारत निर्वाचन आयोग
 पहचान पत्र
 ELECTION COMMISSION OF INDIA
 IDENTITY CARD

KFR1900770



व्यक्ति का नाम : अपरना देवी
 Person's Name : Aparna Devi
 पिता का नाम : महेश राय
 Father's Name : Maheesh Ray
 लिंग : महिला/ Female
 Sex : महिला/ Female
 पोलिंग स्टेशन नंबर : 32
 Station No on 1.1.2009 : 32

Aparna Devi

Aparna Devi

गल्ली/मार्ग : धोदहाकोला
 पोस्ट : धोदहाकोला थाना नं० 45
 जिला/पिन : कोडरमा 825407
 Address :
 H.No. : 107
 Str./Mohalla : Dhodhakola
 Post Off. : Torakola Thana No0 - 45
 District/Pin : Kodarma 825407

Date : 10.11.2009

19 - कोडरमा निर्वाचन क्षेत्र के
 निर्वाचक रजिस्ट्रेशन अधिकारी
 के हस्ताक्षर की अनुकृति
 Facsimile Signature of the
 Electoral Registration Officer
 for 19 - Kodarma Assembly Constituency

पता बदलने पर, नये पते पर अपना नाम
 निर्वाचक नामावली में दर्ज करवाने तथा उस
 पते पर इसी नम्बर का कार्ड पाने के लिए
 सम्बंधित फार्म में यह कार्ड नम्बर अवश्य लिखें
 In case of change in address, mention this
 card No. in the relevant form for including
 your name in the roll at the changed address
 and to obtain the card with same number.

210/0581

Aparna Devi

INCOME TAX DEPARTMENT

GOV. OF INDIA

ARPANA DEVI

MAHESH CHANDRA RAY

01/01/1979

Permanent Account Number

BWHPD5671A

Arpana Rg

Signature

Arpana Devi



14112013

Arpana Devi

आयकर पैन सेवा केंद्र, एन एस डी यूएल
5 वीं मंजिल, मंत्री स्टर्लिंग, प्लॉट नं. 341, सर्वे नं. 997/8,
मॉडल कॉलोनी, दीप बंगला चौक का पार,
पुणे - 411 016.

*If this card is lost / someone's lost card is found,
please inform / return to*

Income Tax PAN Services Unit, NSDL,
5th floor, Mantri Sterling,
Plot No. 341, Survey No. 997/8,
Model Colony, Near Deep Bungalow Chowk,
Pune - 411 016.

Tel: 91-20-2721 8080, Fax: 91-20-2721 8081
e-mail: tininfo@nsdl.co.in

Arpana Devi

ANNEXURE - VI

PHOTOGRAPH SHOWING AREA APPLIED FOR THE MINING LEASE OF
KARMA STONE MINE OF
M/s RAM CHANDRA MEHTA CAPTAIN ANAND APARNA DEVI





खनन योजना तैयार करने के लिए अर्हता प्राप्त व्यक्ति के रूप में मान्यता प्रमाण पत्र
(खनिज रियायत नियमावली, 1960 के नियम 22C के अन्तर्गत)

मेसर्स जेम्स प्रोजेक्ट्स प्राइवेट लिमिटेड, जिनका पंजीकृत कार्यालय 1236/2, लाजपत नगर, निकट-लाला लाजपत राय विद्यालय, पुंदाग, रांची -834 004, झारखंड में स्थित है तथा जिन्होंने उनके मुख्य व्यक्तियों की योग्यताओं और अनुभव का संतोषप्रद प्रमाण प्रस्तुत किया है, को एतद्वारा खनिज रियायत नियमावली, 1960 के नियम 22C के अंतर्गत खनन योजना प्रस्तुत करने हेतु योग्य व्यक्ति के रूप में मान्यता प्रदान की जाती है।

उनका पंजीकरण क्रमांक

RQP/RNC/166/2014/B

है।

यह मान्यता दस वर्ष की अवधि के लिए वैध है जो कि दिनांक 14/04/2024 को समाप्त होगी।

Certificate of Recognition as Qualified Person to Prepare Mining Plans
(Under Rule 22C of Mineral Concession Rules, 1960)

M/S GEMS PROJECTS PRIVATE LIMITED having registered office at 1236/2, Lajpat Nagar, Near Lala Lajpat Rai School, Pundag, Ranchi-834 004, Jharkhand and having given satisfactory evidence of qualifications & experience of their key persons is hereby granted recognition under Rule 22C of the Mineral Concession Rules, 1960 as a Qualified Person to prepare Mining Plans.

His Registration Number is

RQP/RNC/166/2014/B

This recognition is valid for a period of ten years ending 14/04/2024.

स्थान/Place: रांची/Ranchi

दिनांक/Date: 15/04/2014

(आर.पुरोहित/R. PUROHIT)

क्षेत्रीय खान नियंत्रक/REGIONAL CONTROLLER OF MINES
भारतीय खान ब्यूरो/INDIAN BUREAU OF MINES, RANCHI

क्षेत्रीय खान नियंत्रक
Regional Controller of Mines
भारतीय खान ब्यूरो
Indian Bureau of Mines



झारखण्ड गजट

असाधारण अंक झारखण्ड सरकार द्वारा प्रकाशित

संख्या 584 राँची, सोमवार 16 श्रावण, 1937 (श०)
10 अगस्त, 2015 (ई०)

खान एवं भूतत्व विभाग ।

अधिसूचना

7 अगस्त, 2015

संख्या-खनि(विविध)-30/2013-1690--एम0, राँची, झारखण्ड लघु खनिज समनुदान (संशोधन) नियमावली, 2014 के नियम- 34 B के अन्तर्गत संलग्न सूची में अंकित कुल 08 (आठ) योग्यता प्राप्त व्यक्तियों को लघु खनिज का माईनिंग प्लान तैयार करने हेतु राज्य सरकार द्वारा प्राधिकृत किया जाता है :-

क्र०	आवेदक का नाम	आवेदक का पता
1	श्री अमित सक्सेना,	12, विनायक नगर, बोहरा गणेश जी, उदयपुर (राजस्थान)
2	श्री देवाशीष गोड,	प्लॉट नं-58, खरवेल नगर, यूनिट-III, भुवनेश्वर-1

3	Shri Ashok Kumar Thakur	G.D Dayanad Enclave Opp. Road No-3 Ashok Nagar Ranchi
4	Shri M.K Chakraborty,	All-Fourth Floor Ashoka Apartment Mount Carmel Road Dhanbad
5	Shri A.K Sinha,	8-31 Vashundhara Garden, Harihar Singh Road Bariatu, Ranchi
6	GEMS Project Pvt.Ltd.	1236/2, Lajpat Nagar, Near Lajpat Rai School, Pundag, Argora, Ranchi, Jharkhand-834004
7	Dr.Abdul Rahman	A-8/3 PR, Wali Badar Aaprtment, Iradat Nagar Sitapur Road (Near Shia P.G. College)
8	Shri Ravindra Kr. Parkash	102, Rameswaram Apartment Phase-II, Ashok Kunj, Ashok Nagar, Argora, Ranchi, Jharkhand-834002.

2- यह अधिसूचना प्रकाशन की तिथि से प्रभावी होगा।

झारखण्ड राज्यपाल के आदेश से,
आनन्द मोहन ठाकुर,
सरकार के संयुक्त सचिव।

PLATES